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TECHNICAL REPORT T-78-18

THREE-DIMENSIONAL FINITE ELEMENT ANALYSIS OF A SOLID PROPELLANT GRAIN TRANSITION REGION

U.S. ARMY
MISSILE
RESEARCH
AND
DEVELOPMENT
COMMAND

Robert M. Hackett Propulsion Directorate

November 1977

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The invaluable assistance of Don Martin in getting TEXGAP-3D operable on the CDC 6600 computer at Redstone Arsenal is gratefully acknowledged. Discussions with him relative to formulating the finite element model were also most helpful.

Appreciation is expressed to the MIRADCOM Propulsion Directorate - Redstone Arsenal, Army Research Office - Durham, and Battelle Laboratories - Durham Office for financial support of this project.

I. INTRODUCTION

In order to extend the analysis capability of the MIRADCOM Propulsion Mechanics Function, the TEXGAP-3D static linear elastic finite element computer code was obtained in July 1977 to be placed on the CDC 6600 computer at Redstone Arsenal. The development of the code evolved from a pilot effort in 1973, funded by Thiokol/Huntsville Division and more recently (the past two and a half years) has been sponsored by the US Air Force Rocket Propulsion Laboratory at Edwards, California. A short course on the TEXGAP-3D code, sponsored by Pacifica Technology, was held in Los Angeles the latter part of June 1977 at which time the code was released. Previous successful employment of the TEXGAP-2D computer code (developed by the same research group) by personnel of the Propulsion Mechanics Function primarily led to the decision to expend the effort necessary to get the TEXGAP-3D code operational on the Redstone computer system.

Once the code was adapted to the Redstone CDC 6600 computer and made operational, a task requiring a number of minor modifications to the obtained version of the code, a check-out procedure was begun. The check-out of the code involved running six classical check problems and two additional example problems and comparing the results obtained (computer output) with the results of computer runs (of the same problems) provided by the developers of TEXGAP-3D. Once these comparisons were made it was concluded that the code was operating correctly on the Redstone CDC 6600 computer.

At this point, the utilization of TEXGAP-3D for the purpose for which it was acquired was undertaken. The TEXGAP-3D analysis to which this report pertains is that of a transition region in a typical solid propellant rocket motor. The specific details of the analysis and a discussion of the results are given in the subsequent sections of this report.

11. ROCKET GRAIN CONFIGURATION

The rocket grain configuration is taken from Reference 1 and reproduced, in part, in Figure 1. Since only the transition region is to be considered, only that portion of the total geometry is shown in Figure 1. The transition is from a four-point star cross-section to a circular cylindrical bore cross-section. The region considered actually extends somewhat beyond (a distance of 0.463 inches) the transition region, as shown in Figure 1. Two slightly different star geometries are considered, as shown on Section A2 in Figure 1 and labeled I and II. Due to geometrical symmetry, as noted in Figure 1, and to the symmetry of the loading conditions to be considered, it was only necessary to model a 45° segment of the grain cross-section in the analysis.

III. FINITE ELEMENT MODELING

The finite element modeling of the transition region of Figure 1 will be discussed in detail and specific reference will be made to the TEXGAP-3D user's manual (Reference 2).

A. Grid Generation

The three-dimensional finite element grid system for the transition region was generated using a BLOCK command (Reference 2) to create a three-dimensional block region, such as that shown in Figure 2, the edges of which may be defined by a cubic interpolation. This permits a high degree of definition of curved boundaries. The eight corner points must be input, as per Reference 2, while points 9 through 32 (see Figure 2) not specified are located automatically by linear interpolation between corners. As many blocks as are necessary to accurately define a region may be generated.

B. Element Generation

The three-dimensional isoparametric 20 node brick element shown in Figure 3 was used in this analysis. As many bricks as are desired may be generated to fill the previously developed block(s). These elements are generated by a BRICK or BRICKH command (Reference 2). The BRICKH command employs a reformulated element (Reference 3) which takes into account near incompressibility (Poisson's ratio approaching 0.5). In this analysis the propellent grain elements were generated with a BRICKH command and the case elements were generated with a BRICK command. For both analysis models I and II, initially 16 propellant elements and 8 case elements were generated, as can be noted in Figures 4 and 5. The result of subsequent "rezoning" can also be noted in Figures 4 and 5, and this subject will be discussed a little further along in the report.

C. Boundary Conditions

Boundary conditions may be applied to element faces and/or element nodes. This is done through various commands, such as PRESSURE, SLOPE, etc. (Reference 2), along with a face number or node number (see Figure 3) designation. Various boundary condition commands were utilized in this analysis, and of particular importance were those displacement boundary conditions, taken from previous two-dimensional analyses (see Figure 6), which were applied at each end of the transition region. These will be mentioned relative to each of the separate analyses to be presented.

D. Post Processing

Various post processing commands may be utilized to compute stresses, strains and displacements at different points in an element. Some of these commands will be demonstrated when each of the separate analyses is presented.

E. Rezoning

The REZONE command (Reference 2) allows one to subdivide a coarse grid region of elements, for which a solution has been obtained, into a region of smaller elements, and thereby obtain a more accurate solution. A REPOS command (Reference 2) allows one to reposition nodal points when a better geometry definition is desired in a rezone analysis. The REZONE command was employed in this alalysis and the rezoned regions can be observed in Figures 4 and 5.

MODEL I

The finite element model I is shown in Figure 4. It was analyzed for both pressure and thermal loading. The TEXGAP-3D computer input and output is shown on the following pages,

Pressure Loading - Firing at -53°C (-65°F)

| Propellant | Case |
|--|----------------------------------|
| $E_p = 1.31 \times 10^7 Pa$ $(19,000 psi)$ | $E_{c} = 2.07 \times 10^{10} Pa$ |
| $v_p = 0.499$ | $v_c = 0.3$ |

pressure = $1425 \text{ psi } (9.83 \times 10^5 \text{Pa})$

Corresponding end displacements are shown on computer input and referenced to Figure 6.

Thermal Loading (2 Weeks Storage at -53°C (-65°F))

| Propellant | Case |
|---------------------------------------|---|
| $E_p = 4.82 \times 10^5 Pa$ (700 psi) | $E_c = 2.07 \times 10^{10} Pa$ (3 x 10 psi) |
| $v_{\rm p} = 0.499$ | $v_c = 0.3$ |
| $\alpha_{\rm p}$ = 0.00089 in/in/°F | |

 $T_0 = 60^{\circ} \text{C} (140^{\circ} \text{F})$

Corresponding end displacements are shown on computer input and referenced to Figure 6.

The results of three analyses on Model I are shown on the following computer output sheets:

- pressure loading with two sequential rezoning computations, without any repositioning of element nodal points;
- pressure loading with two sequential rezoning computations, with repositioning of some boundary element nodal points;
- thermal loading with two sequential rezoning computations, without any repositioning of element nodal points.

The first analysis, with rezoning near the cylindrical bore end of the transition (see Figure 4), yielded a maximum strain of 0.0231 in element 113 (IJK). The second analysis, with rezoning and repositioning near the star end of the transition, yielded a maximum strain of 0.0594 in element 339. The third analysis, with rezoning near the cylindrical bore end, yielded a maximum strain of 0.200 in element 333.

The following results consist of the full computer output for the first analysis (for element orientation purposes, in the interest of the reader), and abbreviated output for the second and third analyses. The first analysis is contained on pages 8 thru 94, the second on pages 95 thru 102, and the third on pages 103 thru 108.

```
LINE DIRECT LIST OF IMPUT DATA
                                  1 SFINOCYL - STAR TO CYLINDRICAL BORE TRANSITION (I)
2 SETUP.A.PRESCRIB
3 ISO.FROPELLANT.1.1.964..499
4 ISO.CASE.2.3.E7..3
5 END.MATERIALS
             2 STUD-A-PRESURES
3 ISO_ROPE(LANT.1.1.1.5.1.4.499
4 ISO_CASE_2.3.2F7..3
5 END.MATERIALS
6 EUCK-C.II. 1.1.1.5.5.3.7..5 $ PROPELLANT NUDES
7 .94.0.10.2.447.0.10.1.730.1.730.0..665..665.0/
8 .94.0..663.2.447.0.10.1.730.1.730.0..665..665.0/
8 .94.0..663.2.447.0.10.1.730.1.730.0..665..665.0/
8 .94.0..663.2.447.0.10.1.730.1.730.1.730.1.653..655..665.0/
10 Z2.Z.130.1.253.0.2.447.0..462.3.1.730.1.730.1.653..655..665..665.0/
11 SLOKE-C.I. 1.1.3.5.5.7.7.7.5 $ PROPELLANT NODES
12 .94.0...863.2.447.0..462.1.730.1.730.1.403..655..6655..665.1.962
13 Z.14.5.0.1.942.2.447.0..462.1.730.1.730.1.92..653..665..665.1.962
14 16.Z.438..651..462.2.1.730.1.730.1.92..100.1.256.1.462/
15 Z2.1.730..243..633.2.51..775.0.1.972.3.0.2.180.1.256.1.942/
17 3Z.1.75..33.1.942
18 SLOKE-C.I. 1.1.7.5.5.9.7.7.5.9
19 Z.1.5.0.1.942.2.2.447.0.1.942.1.730.1.730.2.100.1.256.1.942/
10 Z.1.5.0.1.942.2.2.447.0.1.942.1.730.1.730.2.465..665..665.1.942/
20 Z.1.5.0.1.942.2.2.447.0.2.942.1.730.1.730.2.469.65..665..665.1.942/
20 Z.1.5.0.1.942.2.2.447.0.2.942.1.730.1.972.2.465..665..665.1.942/
20 Z.1.5.0.1.942.2.2.447.0.2.942.1.730.1.972.2.465..665..665.1.942/
20 Z.1.5.0.1.942.2.2.447.0.1.942.1.730.1.942.30.2.160.1.256.1.942/
20 Z.1.5.0.1.942.2.2.1.75..331.1.942.30.2.160.1.256.1.942/
20 Z.1.5.0.1.942.2.2.1.75..331.1.942.30.2.160.1.256.1.942/
20 Z.1.5.0.1.942.2.2.1.75..331.1.942.30.2.160.1.256.1.942/
20 Z.1.5.0.1.256.1.1.942.2.2.1.75..331.1.942.30.2.160.1.256.1.942/
20 Z.1.5.0.1.256.1.1.942.2.2.1.75..331.1.942.50.2.10.1.256.1.256.0.257.3.405
20 Z.1.7.0..603.2.537.0.463.2.537.0.463.2.547.45.463/
20 Z.1.7.0..603.2.537.0.463.2.537.0.463.2.547.45.463/
20 Z.1.7.0.463.2.537.0.463.2.537.0.463.2.547.45.463/
20 Z.1.7.0.463.2.537.0.463.2.547.0.463.2.547.45.463/
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TIPE IN FFLOSO
          .872 SECONDS
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FINOCYL - STAR TO CYLINDRICAL BORE TRANSITION (I)

MATERIAL PROPERTIES BY TYPES

ISOTROPIC NATERIALS NO MATERIAL E AU ALPHA RHO

1 PROPELLANT .1982-85 .4992-88 0. 0. 2. CASE .300E-88 .300E-80 0. 0.

GRADIENTS FOR NEXT BLCCK GENERATION

| G(1) | | .100E+G1 | 6(21 = | 1005+61 |
|-------|---|----------------|---------|-----------|
| 61 31 | | . 100E+G1 | G1 41 = | .100E+01 |
| 61 51 | | .100E+01 | G(61 = | .100E+01 |
| 61 71 | | . 5 6 62 + 6 6 | G1 81 . | . 100F+01 |
| G(9) | | .100E+61 | G(10) = | .100E+01 |
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MESH GENERATION BLOCK-C IN CARTESTAN COORDINATE SYSTEM 1 FROM I J K 1 1 1 TO I J K 5 5 3

GLOBAL CARTESIAN COORCINATES OF POINTS GENERATED

| 1 | , | * | x | ÷ T | 1 | 1 | J | K | x | * | 7 |
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| 1 | 1 | 1 | 940GE+CO | 0. | 0. | 1 | 1 | 2 | .9400E+00 | 0. | . 2315E+00 |
| 1 | -1 | 3 | .9400E+CG | 0. | .4630E+00 | 1 | 2 | 1 | .9221E+0C | .1631E+30 | C. |
| 1 | 2 | 2 | .9221E+00 | .19315+00 | .2315E+00 | 1 | 2 | 3 | .9221E+00 | .18315+00 | . 46392+00 |
| 1 | 3 | 1 | . 6683E+00 | .3595E+0C | 0. | 1 | 3 | 2 | . #683E+00 | . 3595E+CO | .2315E+00 |
| 1 | 3 | 3 | . 86 83E + 66 | .35955+00 | 6 30 E + 00 | 1 | | 1 | .7816E+00 | .52246+00 | r. |
| 1 | | 2 | .7816E+CC | . 52245+00 | .2315E+00 | 1 | 4 | 3 | .7816F+00 | . 5224E+C0 | .4637E+06 |
| 1 | 5 | 1 | .665CE+CC | .6650=+00 | 0. | 1 | 5 | 2 | .6650E+00 | .6650E+00 | .2315E+00 |
| 1 | 5 | 3 | .6650E+0C | .6550E+0C | . 4 E 30E+0C | 2 | 1 | 1 | .1317E+01 | 0. | 0. |
| 2 | 1 | | .13176+01 | 0. | .2315E+00 | 2 | 1 | 3 | .13176+01 | 0. | . 46372+88 |
| 2 | 2 | 1 | .1306E+C1 | .25955+00 | 0. | 2 | 2 | 2 | -1293E+01 | .2569E+10 | . 2315E+00 |
| 2 | 2 | , | .12768+01 | .2535E+PC | . 4630E+00 | 2 | 3 | 1 | .1234E+01 | . 511CE+CC | C. |
| 2 | 3 | 2 | . 120 9E +C1 | .50055+00 | .2315E+00 | 2 | 3 | 3 | .1176E+01 | . 4871E+00 | . 46 30E+00 |
| 2 | 4 | 1 | .1107E+£1 | . 7398:+00 | 0. | 2 | 4 | 2 | -1074E+81 | .7172E+19 | .2315E+98 |
| 2 | | 3 | . 1030E+C1 | .6143 -+ OC | . 4630E+00 | 2 | 5 | 1 | .9312E+06 | . 9312E+00 | C. |
| 2 | 4 | 2 | .0943E+08 | .8943 -+ 00 | .2315E+00 | 2 | 5 | 3 | .84716+60 | .94715+09 | . 46 39E+00 |
| 3 | 1 | i | .1694E+C1 | 0. | 0. | 3 | 1 | 2 | .1694E+01 | 0. | .2315E+00 |
| | 1 | | .1694E+C1 | 4. | . 463CE+00 | • | 2 | • | .1690E+01 | . 3360E+00 | · . |
| , | , | , | .16716.01 | .3323E+0C | .23155+06 | , | 2 | • | .1646E+01 | . 3273E+00 | . 46 30E+00 |
| 1 | • | 1 | . 1600E+C1 | 30+26566 | | 3 | 3 | 2 | .1565E+01 | .6481E+20 | .2315E+00 |
| 3 | , | , | .1517E+01 | .6292E+0C | .4630E+00 | | | i | .1433E+01 | .9573F+C 9 | |
| ĭ | | , | .1367E+C1 | .92615+00 | .23156.00 | • | - | | -1 322E +01 | . 88325 •0 0 | . 4630E+00 |
| 3 | | i | .1198E+01 | .1198-+01 | 0. | 3 | 5 | , | .1147E+01 | .1147E+C1 | .2315E+00 |
| 1 | | i | .1077E+C1 | .13775+01 | .4530E+00 | | • | | .2070E+01 | 0. | C. |
| 4 | 1 | , | .2070E+01 | 0. | .23156+00 | | | • | .2070E+01 | 0. | .4630E+00 |
| - | , | | .2074E+01 | .4124E+CC | 0. | | , | , | .2059E+01 | .4096E+00 | .2315E+00 |
| - 1 | 2 | , | .2038F+C1 | . 40 54 -+ 00 | .463CE+00 | | • | | .1966E+01 | . 6141F+C0 | C. |
| - 1 | | , | . 1939E+01 | 30+295+00 | .2315E+00 | | | | +1899E+#1 | .7862F+00 | .4639E+00 |
| - | | | .1759E+C1 | .1175E+01 | 0. | | ĭ | 2 | .1723E+01 | .1151E+01 | .2315E+00 |
| | - | | .1669E+01 | .1115 - 61 | . 6630E+00 | | | : | .146 4E+01 | . 1464E+C1 | |
| | | • | .1424E+01 | .14245+01 | .2315E+00 | : | - | | .1366E+01 | .1366E+31 | .4633E+00 |
| | | | .2447E+01 | 0. | 0. | - 1 | ? | 3 | .2447E+81 | 0. | . 2315F+09 |
| | • | • | .2447E+C1 | 0. | .4630E+0C | | 2 | | .2457E+01 | .4888E+00 | 0. |
| | | | .2457E+01 | .4 988 5+06 | .2315E+06 | : | • | • | . 2457E+81 | | . 46 30F+98 |
| 2 | | | .2332E+C1 | .9557 5+ OC | 0. | 2 | | 3 | .2332E+01 | .4888E+88 | .2315€+00 |
| 2 | | | .2332E+01 | .9657E+0G | . 46 30E+00 | : | 3 | • | .2085E+01 | .13926+11 | . 23156400 |
| 2 | , | , | .2085E+01 | .1392E+01 | .2315E+00 | : | : | | | | |
| 2 | - | | .1730E+01 | .1730E+01 | 0. | : | : | 3 | .2085E+01 | .1392E+01 | .4630E+00 |
| 2 | 2 | | 17306+01 | 17305401 | . ME 30E + 00 | , | , | | *11.305.401 | .173fF+'1 | .23156+00 |

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GRADIENTS FOR NEXT BLOCK GENERATION
                                                                                                                                                                                                                                                                                             G( 2) = .100E+01
G( 4) = .100E+01
G( 6) = .100E+01
G( 8) = .100E+01
G(12) = .100E+01
                                                                     G( 11 = G( 31 = G( 71 = G( 111 = G( 111
                                                                                                                                                   . 1 66E+61
                                                                                                                                                  .100E+01
.100E+01
.500E+00
HESH GENERATION BLOCK-C. IN CARTESIAN COORDINATE SYSTEM 1 FROM ( J K 1 1 3 TO 1 J K 5 5 7
                                                                                                                                                          CCORDINATES OF POINTS GENERATED
 GLOBAL CARTESIAN
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100AE+01 0.

9210E+00 .1031E+00 .

1401E+01 .2430E+30 .

1008E+01 .3044E+70 .

9947E+00 .3520E+00 .

1320E+01 .3371E+00 .

7010E+00 .5224E+00 .

0997E+00 .3564E+00 .

6650E+00 .6650E+30 .
                                                                                                                                                X .940CE+CG 6.
.1543F+81 6.
.2149F+81 8.
.1131E+01 .2
.1677E+00 .3
.1456E+01 .3
.1456E+01 .3
.8277E+00 .4
.9596E+0 .0
.6650E+00 .6
.6650E+00 .6
.1513E+01 0.
.2629E+01 0.
.1305E+01 0.
.2039E+01 0.
.21395E+01 .3
.2131E+01 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7
.6543F+00
.1551F+01
.4639F+00
.1203F+01
.1942F+01
.0435F+00
.1561F+01
.4630F+00
                                                                                                                                                                                                                                                                                                                                            2 . 4630E+00
.1203E+61
.1942E+01
.8689E+00
.1556E+01
.4630E+00
.1203E+01
                                                                                                                                                                                                                                               0.

-2134500

-2741500

-3745500

-3446500

-3297500

-4809500

-3979500

-6650500

-6550500
                                                                                                                                                                                                                                                                                                                                            .1203E+01
.1942E+01
.8381E+00
.1567E+01
.4630E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .1203E+01
                                                                                                                                                                                                                                                                                                                                            . %630E+00
.1203E+01
.1942E+01
.0+89E+00
.1556E*01
.1566E*01
.1942E+01
.8409E+00
.1564E+01
.4630E+00
.1203E+01
.1942E+01
.8377E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   . 8328E+46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .6650E+00
.1317E+01
.1769E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .1577E+01
.4630E+00
                                                                                                                                                                                                                                     .65505+00
0.
.2595+00
.30295+00
.34695+00
.4765+00
.4765+00
.53985+00
.55405+00
.87235+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .1203E+01
.1362E+01
.1560E+01
.4530E+01
.4530E+01
.1203E+01
.1362E+01
.4630E+01
.1203E+01
.1362E+01
.1462E+01
.1462E+01
.1462E+01
.1463E+01
.1463E+01
.1463E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.
.2012E+00
.324BE+00
.5110F+00
.4091E+00
.4036E+00
.6052E+10
.3978E+00
.6052E+10
.6052E+10
.6052E+10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27212701
.1657E01
.1657E01
.1234E01
.1234E01
.1648E01
.1648E01
.1124E01
.1124E01
.124E01
.124E01
.1689E01
.1689E01
.1689E01
.1689E01
.1433E01
.14433E01
.1453E01
.1453E01
.1453E01
.1453E01
.1453E01
.1453E01
.1453E01
.1453E01
                                                                                                                                                  .1952E-01
.1108E-01
.1108E-01
.1211E-01
.9137E-00
.8723E-00
.1694F-01
.1995E-01
.2996E-31
.1747E-01
.1719E-01
.1719E-01
.1435E-01
                                                                                                                                                                                                                                                                                                                                            .8327E+00
.1572E+01
.463CE+00
.1203E+01
.1942E+81
.8409E+00
.1564E+)1
.4630E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .8471E+88
0.
.3360E+88
.3634E+88
.3914E+89
.6520E+88
.6570E+88
                                                                                                                                                                                                                                               .34965+06
.37735+00
.66265+06
.664035+00
.61165+00
.92135+00
.92135+00
.11985+01
.11475+01
.10775+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .1942E+01
.6382E+60
.1566E+81
                                                                                                                                                                                                                                                                                                                                            .1203E+01
.1942E+01
.0355E+00
.1569E+01
.463CE+00
.1203E+01
.1942E+01
.0301E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .9573E+09
.8816E+08
.7861E+20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .4631E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .1942E+01
.0327E+00
                                                                                                                                                       .1457E+01
                                                                                                                                                       .1198E+01
.1147E+01
.1077E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .1176F+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .1572E+01
.4630E+00
.1203E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.
                                                                                                                                                       .2136E+01 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .2221E+01
                                                                                                                                                       . 207 3E+C1
                                                                                                                                                                                                                                                  . 41 24F+06
                                                                                                                                                                                                                                                                                                                                               .4630E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          . 2120E+01 ·
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   . 6369€+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .4188E+00
```

.1

MESH GENERATION BLOCK-C IN CARTESTAN COORDINATE SYSTEM 1 FROM I J K 1 1 3 TO I J K 5 5 7 GLOBAL CARTESIAN CCORDINATES OF POINTS GENERATED 7 .1568F+01 .4639F+80 .1285F+81 .1942F+81 .4571F+81 .4630F+80 .1283F+81 .1942F+81 .6320F+80 123334455 K6357463574635746 .1572E+01 .4630E+00 .4888-00 .4888-00 .96578-00 .96578-00 .13928-01 .13929-01 .17308-01 .1942E+01 .0320E+00 .1572E+01 .4630E+08 .2332E+C1 .2332E+G1 .2085E+C1 .2085E+C1 .1730E+C1 .1730E+C1 .1942E+01 .8328E+00 .1572E+01 .4636E+00 .1392E+01 .1392E+01 .1392E+01 .2085E+01 .2005E+01 .2005E+01 .1730E+01 .1283E+01 .1942E+01 .8329E+00 .1203E+01 -1730E+11 GRADIENTS FOR NEXT BLOCK GENERATION G(1) = .100E+G1 G(3) = .100E+01 G(5) = .100E+01 G(7) = .500F+60 G(9) = .100E+61 G(11) = .100E+61 G(2) = .100E+01 G(4) = .100E+01 G(6) = .100E+01 G(10) = .100E+01 G(12) = .100E+01 MESH GENERATION SLOCK-C IN CARTESIAN COORDINATE SYSTEM 1 FROM I J K 1 1 7 TO I J K 5 5 9 GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED Y
.2145E+C1 0.
.186E+C1 3.24E+00
.1456E+01 3297E+00
.1456E+01 3297E+00
.105E+01 3594E+00
.6650E+0C .6650E+0C
.2221E+01 0.
.2025E+01 3505E+0C
.2013E+01 3469E+00
.166CE+C1 4776E+0C
.1275*C1 6153E+0C 7 .2174E+01 .1942E+01 .1942E+01 .1942E+01 .1942E+01 .2174E+01 .2405E+01 .2174E+01 .2405E+01 .240 .1342E+01 .2405E+01 .2174E+31 .2174E+31 .1942E+61 .2405E+01 .2174E+01 .2405E+01 .2174E+01 .2174E+01 .2405E+01

. 2174E+01

.1942E+01

.61 53E+0C

-2405E+01

.5883E+10

.166CE+61

```
MESH GENERATION BLOCK-C IN CARTESIAN COORDINATE SYSTEM 1 FRONT J K 7 5 9
                                                                                                      COORDINATES OF POINTS GENERATED
                                                                                                                                                                                                                                                                                                                                                                                                                                  X .9312E+00 .9312E+00 .0071E+00 .0071E+00 .0071E+00 .2296E+01 .3946E+00 .1545E+01 .3794E+00 .147E+01 .147E+01 .2372E+01 0.2372E+01 0
                                                                                                  7
.1942E+01
.2405E+01
.2174E+01
.1942E+01
.2405E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .9312E+00
                                                                                                  .2296E+C1 0.
.2162E+01 .3944E+00
.189ME+01 .6116:+06
.1997E+01 .8372E+06
.1199E+01 .1197E+01
.1277E+01 .1277E+01
.2372E+01 0.
.2313E+01 .427E+01
.2430E+01 .133E+01
.1761E+01 .113E+01
.1761E+01 .113E+01
.1761E+01 .1424E+01
.2447E+01 0.
.2457E+01 .4886+06
.2332E+01 .9657F+00
.2332E+01 .9657F+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .2174E+01
.1942E+01
.2405E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .2174E+01
.1942E+01
.2405E+01
                                                                                                                                                                                                                                    .2174E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                  .2372E+01 0.
.2378E+01 .4410E+10
.2138E+01 .867E+08
.2073E+01 .7774E+10
.1785E+01 .1444-21
.136E+01 .1366E+01
.2457E+01 .488E+02
.2457E+01 .488E+02
.2457E+01 .488E+02
.2332E+01 .489E+02
.2035E+01 .139EE+01
.2035E+01 .139EE+01
                                                                                                                                                                                                                                  .2174E+01
.1942E+01
.2405E+01
.2174E+01
.2405E+01
.2174E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .2174E+01
.1942E+01
.2405E+01
.2174E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .2405E+61
.2174E+01
.1942E+01
                                                                                                                                                                                                                                   .1942E.01
.2405E.01
.2174E.01
                                                                                                                                                           .2405E+01
.2174E+01
.1942E+01
                                                                                                                                                                                                                                   .1942E+01
                                                                                                     .2085E+C1
.1730E+C1
.1736E+C1
                                                                                                                                                                                                                                 .2174E+01
.1942E+01
.2405E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                    .2085E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .1392E+11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .7405F+81
  GRADIENTS FOR NEXT BLOCK GENERATION
                                              G( 1) =
G( 3) =
G( 5) =
G( 7) =
G( 9) =
G(11) =
                                                                                                                                                                                                  G( 2) = .100E+01
G( 4) = .100E+01
G( 6) = .100E+01
G( 8) = .100E+01
G(10) = .100E+01
                                                                                                     .100E+01
                                                                                                     .100E+01
.100E+01
  MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2 FROM I J K 5 1 1 TO I J K 7 5 3
  GLOBAL CYLINDRICAL CCORDINATES OF POINTS GENERATED
                                                                                                                                                                   THETA
                                                                                                                                                                                                                                                                                                                                                                                                                                  THETA
                                                                                                     K 2 1 3 2 1 3 2 1 3 2
```

```
HESH GENERATION BLOCK IN CYLINORICAL COGROINATE SYSTEM 2 PROW I J R 5 1 I TO I J K 7 5 J
 GLOBAL SYLINDRICAL CCORDINATES OF POINTS GENERATED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             THETA
                                                                                                           TMETA Z
.2250E+D2 0.
.2250E+D2 0.
.3375E+D2 .4630E+D0
.4500E+D2 0.
.4500E+D2 .4630E+D0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .2462E+01
.2462E+01
.2462E+01
.2462E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .2482E+01
                                                                                                                                                                       .2462E+01
.2517E+01
.2517E+01
.2517E+01
.2517E+01
.2517E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1125E+12
.1125E+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .1125E+)2 0.
.1125E+02 .4633E+(0
.2250E+02 .2315E+00
.3375E+)2 0.
.3375E+)2 .4630E+80
.4500E+12 .2315E+80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .2517E+81
 MESH GENERATION SLOCK. IN CYLINDRICAL COOPDINATE SYSTEM 2 FROM I J K \phantom{0} 5 1 1 TO I J K \phantom{0} 7 5 3
                                                                                                           CCORDINATES OF POINTS GENERATED
 GLOBAL CARTESIAN
                                                                                                         CCORDINATES OF POINTS GENERATED

X

2447E+01 C.
2447E+01 C.
2447E+01 C.
2446E+01 .4774E+00 .231FE+00
.2261E+01 .9364E+00 .4630E+00
.2035E+01 .1359E+01 .2315E+00
.173CE+01 .1730E+01 ..2315E+00
.173CE+01 .1730E+01 ..2315E+00
.2434E+01 .4842E+00 ..2315E+00
.2434E+01 .4842E+00 ..2315E+00
.2434E+01 .4942E+00 ..2315E+00
.2434E+01 .4942E+00 ..2315E+00
.2434E+01 .1755E+01 ..2315E+00
.2517E+01 0...2315E+00
.2315E+00
.4630E+00
.2315E+00
.2315E+00
.2315E+00
.4630E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0. .4630E+00
.9498E+00 .2315E+00
.9498E+00 .4630E+00
.1379E+01 .2315E+00
0. .2315E+00
0. .2315E+00
.4910E+00 .4630E+00
.9632E+10 .2315E+00
.1398E+01 .2315E+00
.1398E+01 .4639E+00
.1398E+01 .4639E+00
.2315E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .2469F+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .2325E+01
.2093E+01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -2C93F+01
```

GRADIENTS FOR MEXT BLOCK GENERATION

| G(1) = | .100E+C1 | G(2) = | .100E+01 |
|---------|----------|---------|----------|
| G(3) = | .180E+01 | G(4) = | .1002+81 |
| G(5) = | .100E+01 | G(6) = | .100E+01 |
| G1 71 . | .186E+81 | Gt 87 = | -198E+81 |
| 6(9) = | .100E+01 | G(10) = | .100E+01 |
| 6(11) . | .100E+01 | 6(12) = | .100E+81 |
| | | | |

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2 FROM I J K 5 1 3 TO I J K 7 5 7

GLOBAL CYLINDRICAL CCORDINATES OF POINTS GENERATED

| 1 | 1 | K | R | THETA | 7 | 1 | J | K | R | THETA | 7 |
|---|---|---|-------------|--------------|-------------|---|---|-----|-------------|--------------|---------------|
| 5 | 1 | 3 | .2447E+C1 | 0. | . 4630E+00 | 5 | 1 | 4 | .2447E+01 | 0. | . 8328E+00 |
| 5 | 1 | 3 | .2447E+01 | 0. | .1203E+01 | 5 | 1 | 6 | .2447E+01 | 0. | -1572E+01 |
| 5 | 1 | , | . 2447E+01 | 0. | .1962E+81 | | 2 | 3 | .2447E+01 | ·1125E+12 | . 4639E+88 |
| 5 | 2 | 4 | . 2447E+C1 | .1125:+02 | . 8328E+0C | 5 | 2 | 5 | .2447E+01 | .1125E+02 | .1283E+81 |
| 5 | 2 | 6 | .2447E+01 | .1125E+02 | . 1 572E+01 | 5 | 2 | 7 | .2447E+01 | .1125E+12 | .1942E+01 |
| 5 | 3 | 3 | .2447E+L1 | .2250E+02 | . 463CE+00 | 5 | 3 | 4 | .2447E+01 | . \$250E+02 | . 6358E+86 |
| 5 | 3 | 5 | .2447E+61 | .2250E+02 | .1203E+01 | 5 | 3 | 6 | .2447E+01 | . 2250E+02 | . 1572E+01 |
| 5 | 3 | , | .2447E+C1 | .2250E+02 | .1942E+01 | 5 | 4 | 3 | .2447E+01 | . 3375E+12 | . 4630E+80 |
| 5 | 4 | 4 | .2447E+01 | .38792+02 | . 83282+00 | | | 9 | .24472+81 | . 33792+82 | . 1283E+81 |
| 5 | 4 | 6 | . 2447E+£ 1 | .3375E+02 | .1572E+01 | 5 | | 7 | .2447E+01 | . 3375E+12 | .1942E+01 |
| 5 | 5 | 3 | .2447E+01 | .4500E+02 | .4630E+00 | 5 | 5 | 4 | .2447E+01 | .4500E+: 2 | . 6326E+88 |
| 5 | 5 | 5 | . 2447E+01 | . 45 00E+ 82 | .1203E+01 | 5 | 5 | 6 | .2447E+81 | .450 DE+0 2 | .1572E+01 |
| | 5 | 7 | . 2447E+61 | .45 00E+02 | . 1942E+81 | 6 | 1 | 3 | .2482E+81 | 0. | .4638E+00 |
| 6 | 1 | 4 | .2482E+01 | 0. | .8328E+00 | 6 | 1 | 5 | .2482E+01 | 0. | . 120 3E+01 |
| 6 | 1 | | . 24822.01 | 1. | .15722+81 | 8 | 1 | 7 | .2482E+81 | 0. | . 1942E+81 |
| 6 | 5 | 3 | .2482E+01 | .1125E+C2 | .4E30E+00 | 6 | 2 | 4 | . 246 2E+81 | .1125E+02 | . 6327E+88 |
| 6 | 2 | | .2482E+01 | .1125E+02 | .1203E+01 | 6 | 2 | 6 | .2482E+01 | .1125E+02 | .1572E+01 |
| 6 | 2 | 7 | .2482E+01 | .1125E+02 | .1942E+01 | 6 | 3 | 3 | .2482E+G1 | . 2 250E+: 2 | .4637F+FT |
| 6 | 3 | - | . 2482E+61 | .2250=+02 | . 93276+00 | 6 | 3 | 5 | .2482E+01 | .2250E+32 | .1203E+01 |
| 6 | 3 | 6 | .2482E+61 | . 22505+02 | .1572E+01 | 6 | 3 | 7 | .2482E+01 | . 2250E+12 | .1942E+C1 |
| 6 | | 3 | . 2482E+C1 | .33 75 .+ 02 | .46306+00 | 6 | 4 | - 4 | .24925+01 | . 3379E+02 | .8327E+00 |
| 6 | 4 | | .2482E+61 | .3375=+92 | .1203E+01 | 6 | | 6 | .2482E+01 | . 3375E+: 2 | . 1572E+C1 |
| 6 | 4 | 7 | .2482E+01 | . 33755+02 | .1942E+01 | 6 | 5 | 3 | .2482E+01 | .4500E+32 | . 4638E+98 |
| 6 | 5 | 4 | . 2482E+C1 | . 45 905+92 | . 8328E+08 | 6 | 5 | 5 | .2482E+01 | .4500E+92 | .1203E+01 |
| 6 | 5 | 6 | . 2482E+01 | .45 00 =+ 02 | .15726+01 | 6 | 5 | 7 | .248 2E+81 | .4500E+5 Z | .1942E+81 |
| 7 | 1 | 3 | . 2517E+C1 | 0. | . 463CE+00 | 7 | 1 | 4 | .2517E+01 | 0. | . 6328E+01 |
| 7 | 1 | 5 | . 2517E+01 | 0. | .12036+01 | | 1 | . 6 | .29172+81 | 0. | . 15722-81 |
| 7 | 1 | 7 | . 2517E+61 | 0. | .1942E+01 | 7 | 2 | 3 | .2517E+01 | .1125E+02 | .4630E+00 |
| 7 | 2 | 4 | .2517E+01 | .11252+02 | . 83286+00 | 7 | 5 | 5 | .2517E+01 | .1125F+02 | . 120 3E+01 |
| 7 | 2 | 6 | .2517E+C1 | .1125E+02 | .1572E+01 | 7 | 2 | 7 | .2517E+01 | .1125E+02 | . 1942E+81 |
| 7 | 3 | 3 | . 2517E+01 | .2250E+02 | . 4630E+00 | 7 | 3 | 4 | .2517E+01 | . 2 250E+1 2 | .6328E+08 |
| 7 | 3 | 5 | .2517E+C1 | . 22505+92 | .1203E+01 | 7 | 3 | 6 | .2517E+01 | . 2250E+0 Z | .1572E+01 |
| 7 | 3 | 7 | .2517E+61 | . 22506+02 | . 19425+01 | 7 | 4 | 3 | .2517E+01 | . 3375E+1 2 | .4638E+00 |
| 7 | 4 | 4 | .2517E+01 | .33753+02 | .8328E+00 | 7 | 4 | 5 | .2517E+01 | . 3375E+02 | .1203E+61 |
| 7 | 4 | 6 | .2517E+C1 | . 3375 - 42 | . 1572E+61 | 7 | 4 | 7 | .2517E+81 | . 3375E+22 | .1942E+01 |
| 7 | 5 | 3 | . 2517E+01 | .45 00 5+ 92 | .463CE+00 | 7 | 5 | | .2517E+01 | .4500E+12 | . 6325E+00 |
| 7 | 5 | 5 | .2517E+01 | .45005+02 | .1203E+41 | 7 | 5 | • | .2517F+G1 | .45? JE+: 2 | .1 F 72F + 11 |
| 7 | • | 7 | .25178+11 | \$3+700 4. | .1942F+01 | | | | | | |

| | CARTESTAN | COOFDINAT | COORDINATES OF POINTS GENERATED | SENEORIED | | | | | | |
|--------|--------------------|--|---------------------------------|----------------|---|-----|---|--------------|------------|---------------|
| 1 | | | **** | | 1 | , | | × | | 7 |
| , • | | .2447E+01 | | . 4 6 30E + 00 | 5 | | , | .2447E+01 | | 0353640 |
| • | | 24476+81 | | .1203E+01 | • | - | s | .2447E+01 | | 10.32/61. |
| | | 244.75401 | | 19425+01 | 2 | 2 | ~ | . 2400E+61 | .47746+39 | . 46 30E + CO |
| | | 10.0000 | 7376670 | A 12 A F + 00 | | 2 | • | .2400E+01 | .47746+08 | . 120 3E+01 |
| • | • | 1 | 47745+00 | 15726+01 | | 2 | ~ | .2400E+01 | .47746+00 | . 1942E+01 |
| | | 7 | 01645400 | 46705+00 | 5 | - | , | .2261E+01 | .9364E+08 | . 6325E+00 |
| | 7 4 | 22615+01 | 9364=+00 | .1203E+01 | 2 | - | 9 | .22616+41 | .9364€+98 | . 15725+01 |
| | | 22616401 | 94645406 | 19426+01 | • | | , | .2035E+01 | 13596+01 | . 46 39E+ |
| | | 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1042651 | 8328E+00 | 2 | , | 5 | .2035E+01 | .13596+11 | . 12036+01 |
| | | 1 1 20 20 20 20 20 20 20 20 20 20 20 20 20 | 11596+01 | 15725+01 | | | ~ | .2035E+01 | .1359E+01 | . 1942E+11 |
| | | 1776603 | 1730F+01 | 4630F+08 | ~ | ~ | , | .1730E+01 | .17305+91 | . 8328E+08 |
| | ?! | 1130511 | 1730540 | 120 15 + 01 | 5 | 5 | 9 | .1730E+01 | .1730E+01 | .1572E+81 |
| | • | 11136641 | 17 105 + 81 | 19425+01 | • | - | - | .24825+01 | | . 46 30E+00 |
| | | 100000 | | 81286+00 | • | - | 5 | .2482E+01 | | . 120 JE+01 |
| | | 14472642 | | 16726431 | | | | 10+32842 | | 19425+01 |
| | | 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 10 425 4 B C | 76.305+00 | 2 | ~ | , | . 2434F+01 | . 48425+00 | . 8327E+09 |
| | 71 | 1111111 | 10425484 | 12035+01 | 9 | 2 | 9 | .24346+61 | .48425+30 | 15726+01 |
| • | | 1 | 30.00 | 101361 | | - | 3 | .22936 - 01 | - 94986 . | . 46378+ |
| | | 10434542 | 30.5464 | A 1275+0: | • | | | ,2293E+01 | . 94 98E+D | . 120 3E+01 |
| | , | 1012622 | 00.0000 | . KY2E+01 | • | - | | .229 3E + 01 | .94988+1 | .19426+01 |
| ۰. | | 10.25622. | 11705 401 | 10.33.64 | • | • | • | .2064E+01 | .13796+11 | .8327E+80 |
| | , | 10457900 | 1 1796 + 01 | 12035+01 | • | | 9 | .2064E+01 | .1379E+01 | .1572E+01 |
| | • | 101340020 | 11796+01 | 19425+01 | • | ~ | | .1755E+01 | .1755E+01 | . 46 30 E+0 |
| | | 10.366 | 17555+01 | . A32AE+08 | 9 | 5 | 5 | .1755E+01 | .1755E+#1 | . 1203E+01 |
| | | 10666401 | 17557+01 | 15726+01 | 9 | | 1 | .17556+01 | .1755E+81 | . 1942E+01 |
| | | 36:76+0: | | . 4630F+00 | - | - | • | .2517E+01 | | . 6328E+0 |
| | , , | 25175451 | | 12035+01 | 1 | - | 9 | .2517E+01 | 0. | . 15 72E+01 |
| | | 13434167 | | 19425+01 | 1 | 2 | • | .2469€+01 | .49106+30 | .4639E+08 |
| | | 20,50646 | 49105+00 | . A32AF+00 | - | 2 | s | .2469E+01 | .4910E+80 | . 120 3E+01 |
| | | 10.760640 | 49136400 | 15726+01 | 1 | 2 | 1 | .2469E+01 | . 4910E+90 | . 1942E+81 |
| | | 21266+01 | 96.125+00 | . 4630E+00 | 1 | m | • | . 2325E+01 | .9632E+08 | . 8328E+00 |
| | | 21255441 | 96325+80 | 1203E+01 | 1 | | 9 | .2325E+01 | .9632E+98 | . 15 72E+ |
| | | 21266 +01 | 96325+00 | . 1942E+01 | - | , | m | .2093E+01 | | . 4633E+9 |
| | | 20015+01 | 1 1 1 2 AF + 01 | . 8328E+06 | 1 | • | 5 | . 20935+01 | | . 120 3E+31 |
| | * " | 2035500 | 11 45454 | 15725+31 | 1 | 4 | 1 | .2093E+01 | .1398E+. 1 | 13456401 |
| | | 178 6461 | 17AG2+61 | 463:2+06 | 1 | 4 | | 17965+01 | .1786c+04 | . 63236+60 |
| 1 | | 178: 6+61 | 17.897.461 | 12635-01 | 1 | 5 | 9 | .178CE+C1 | 1:+30871. | .1726+01 |
| | | 178:5+51 | 17.96 34:1 | .19425+01 | | | | | | |
| | , , | | ********* | | | | | | | |
| חובניו | GEAULERIS FOR NEXT | | 207.42 | | | | | | | |
| 1 | -61-11- | .100E+01 | - 3 | | | - | | - | | |
| | 6(3) | .100E+01 | 17 25 | | | | | | | |
| | | . 100E+01 | 6 6 6 | " | | | | | | |
| | | . 100E+01 | 6 39 | | | | | | | |
| | = 10 /3 | 100F+03 | 6(10) | 100E+01 | | 77. | | | | |
| | | **** | | | | | | | | |

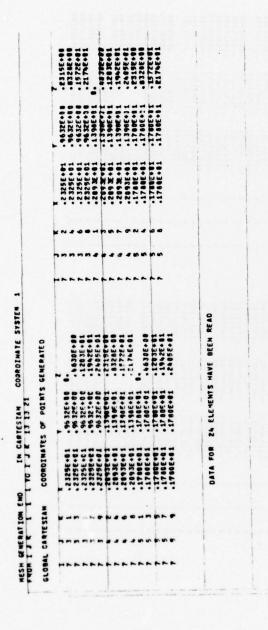
MESH GENERATION BLOCK IN CYLINDRICAL CODRDINATE SYSTEM 2
FROM I J K 5 1 7 TO I J K 7 5 9
GLOBAL CYLINDRICAL CCORDINATES OF POINTS GENERATED

| , | | | | | | | | | | |
|------------------|------|--------------|---------------------------------|---------------|-----|-----|-----|-----------------|----------------|--------------|
| | 7 .2 | 2447E+01 | | . 1942E+01 | • | - | • | .2447E+01 | | |
| | 6 | 2447E+C1 | | .2405E+01 | 2 | 2 | _ | .2447E+01 | 2115511. | 10+32461. |
| | | 2447F+F1 | 11255+02 | .21746+01 | 2 | 2 | 6 | .2447E+01 | .1125E+7.2 | . C485E+01 |
| | | 24476461 | 22560+32 | .1942E+01 | | m | | .2447E+01 | . 2250E+12 | .2174E+01 |
| | | 24476461 | 22505+02 | .240 5 5 + 01 | 2 | | 1 | .2447E+01 | . 33756+: 2 | .1942E+C1 |
| | | 20.476.00 | 22755482 | .21746+81 | - 5 | 1 | 6 | .2447E+01 | 3375E+32 | .2405E+C1 |
| | | | | 10126181 | | • | • | .2467E+L1 | 2.50CE+. 2 | .21748+01 |
| | 2. | 244/E+C1 | 20.0000 | 10.33610 | | | | 12496461 | | 10626 |
| 2 | 3. | 244764: 1 | 70 10 4. | 10.11.12. | | | . 0 | 20.000 | | . 2L n = E . |
| 9 | | 24921 - 1 | | | | • • | | *** 15616 | 36 | 2.7.1. |
| 6 2 | | 24825 +: 1 | 21.22:1. | .10425.31 | ٥ | | 0 1 | 11. 36-31 | | |
| 2 9 | 9. | .2482E+: 1 | .1125:402 | .245: 113 | 9 | | | 17. 175477. | 5 | . 13.61. |
| - | 4 | 2 u825 +: 1 | 225525+12 | .2:745.01 | 9 | 5 | 6 | 1:4 12672. | | |
| , , | | 2482F+C1 | 3375:+02 | .1342E+01 | 9 | 4 | • | .2482E+01 | .33756+32 | . 2174E+01 |
| | | 24.026481 | 1375F+02 | .2405E+01 | 9 | 2 | 7 | . 2482E+01 | 54507E+32 | .1942E+01 |
| | | | CE 005402 | 21746+01 | 9 | 5 | 6 | .2482E+01 | .4500E+02 | .24 05E+01 |
| | | 1000 | | 10425401 | , | | | .2517E+01 | .0 | . 2176E+01 |
| 1 | | . 251/E+01 | | 10.3361. | | | | 25175+01 | 11255112 | . 1962E+01 |
| 7 1 | 6 | .2517E+01 | | 104625401 | | | - 4 | 10.311030 | | |
| -1-1 | 2. | 2517E+01 | .112E+62 | .21746+01 | - | 2 | | 1043/1620 | . 11625.16 | 100000 |
| 1 | 7 | 2517E+01 | .2250E+02 | . 1942E+01 | 1 | m | • | .2517E+01 | 25.205.25 | 10434/17 |
| | | 2517F+01 | 22505+82 | . 24C5E+01 | 1 | 3 | - | .2517E+01 | .337554:2 | . 19425461 |
| | | 36176161 | 11785482 | 21 74F+81 | - | | 6 | .2517E+01 | .33756+32 | .24 05E+01 |
| | | | | 10426481 | | | | 2517E+01 | .4500E+12 | . 2174E+81 |
| 1 | | 231/E+01 | 3 1 2 0 C | 10.33661 | | | | | | |
| 2 | 6 | .2517E+01 | . 45 DEE+02 | . 2405E+01 | | - | | | | |
| | | | | | | | | | | |
| GLOBAL CARTESTAN | | CORDINAT | CCORDINATES OF POINTS GENERATED | GENERATED | | | | | | |
| 1-1-1 | 1 | | - | 10136101 | | 7 - | * | . 2447F+01 | | . 2174E+01 |
| 2 | 2. | 2447E+01 | : | 10.374610 | | | | 24.00F+01 | . 6774E+CO | .1942E+01 |
| 5 1 | 6 | .2447E+01 | | | | | | | . 774.547.0 | STREAM |
| 2 5 | 8 | 24 00E+01 | .47746+00 | .21745+01 | • | ~ (| | 10.30042. | 0 | 101218121 |
| 5 | 7 | 2261E+01 | .9364E+0C | .1942E+01 | • | , | • | . 2 26 1E + 0 1 | 939956 | |
| | | 2261E+01 | .9364E+C0 | .2405E+01 | • | , | - | .2035E+01 | .13591.1 | 199264 |
| | - | -20 3EF af 1 | 13505+21 | . 21746+01 | | , | 6 | .2035E+01 | 1 3636 | .240-E+E1 |
| | | .7200 | 17 3054 31 | . 19475+51 | | ٣. | • | .173GE+01 | .17316.1 | .21745471 |
| | | 17206464 | 47345454 | - 24CFE+31 | • | - | - | .248 2E+01 | .0 | .19425+61 |
| | | | | 31746 | 4 | | 6 | .2482F+01 | 3. | . 2L 95E +P1 |
| 9 | | 24667 | | 1012510 | | | • | . 2434F +C1 | 8421 | 17+4-715 |
| 2 9 | , | 10+3-542 | 73.246. | 10.375. | | | | 22075464 | 0.000 | 10425461 |
| 2 9 | 6 | 24348+01 | 164545 | *5+0+2* | ٥ | • | | | | |
| . 6 -3 | 8- | 2293E+01 | 00+306 +6° | .2174E+01 | 9 | 2 | 6 | . 229 SE + UI | . 94 982 + 8 0 | . 24878 + 81 |
| | 1 | 2064E+01 | .1379E+01 | .1942E+01 | • | , | • | .20646+01 | .13796+31 | . 21 /4E+01 |
| | | 20645+61 | .13795+01 | .2405E+01 | 9 | s | - | .1755E+01 | .1755E+31 | . 1942E+01 |
| | | 1755E+61 | .1755:+01 | .2174E+01 | 9 | 8 | 6 | .1755E+01 | .1755E+01 | . 24 05E+01 |
| | | 2517F+81 | | . 1942E+01 | 1 | - | • | .2517E+C1 | | .2174E+01 |
| | | 26.75.81 | | -2405F+01 | 1 | ~ | 1 | .2469E+01 | . 4910E+00 | . 1942E+01 |
| 1 | | 10116 | | 24716101 | | - | 0 | 2469F+01 | | -24.85F+B1 |
| -1- | 8 | 24696+61 | .4916E+DC | .21/45+01 | | ۰, | | 23256+01 | | . P176F+01 |
| 7 3 | | 2325E+01 | 96 32: + 0 0 | .19425+01 | | , . | • | 20016401 | • | 19475401 |
| 7 | • | . 2325E+61 | . 95 32E+DE | * 2405E+UI | | • | | 10.306.030 | | |
| | | | | | • | | • | | | |

23.55.00 25.55.00 21.74. .2174E+B1 .17886.11 .17.80E + 0.1 FROM I J K 5 1 7 TO I J K 7 5 9 COORDINATE SYSTEM 12.0.35.0.0 1.2.0.35.0.0 1.2.0.35.0.0 1.3.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0.0 1.3.0.0 .24056+01 COORDINATES OF POINTS GENERATED COORDINATES OF POINTS GENERATED .1780E+01 .1780E+01 .1780E+01 MESH GENERATION END IN CARTESIAN FROM I J K 13 13 21 GLOBAL CARTESIAN GLOBAL CARTESIAN

10. 36.12 MESH GEMERATION END IN CARTESIAN COORDINATE SYSTEM 1 23.2726.01 1.9.2726.01 1.9.26.01 1.9.26.01 1.9.26.01 1.9.46.0 COORDINATES OF POINTS GENERATED 9136690 • 9723690 • 3723690 • 3723690 • 562690 • 562690 • 662600 • 66 CARTESTAN GLOBAL

CODRCINATE SYSTEM 19426-01 2115-00 315-01 21726-01 19726-01 19726-01 19726-01 19726-01 19726-01 21746-01 21746-01 21746-01 21746-01 21746-01 21746-01 21746-01 2176-01 CCORDINATES OF POINTS SENERATED 47.74.0 47. GENERATION END IN CARTESIAN

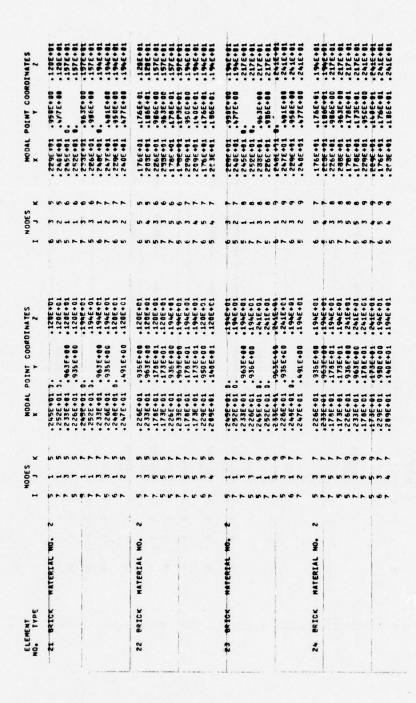


| 196 197 | ### PATERIAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 | MODAL POINT COORDINATES | 1 7 4 | 1 | TOTAL POINT COORDINATES |
|--|--|-------------|-------------------------|-------|-------|-------------------------|
| | ### Control 1 1 1 1 1 1 1 1 1 | | | | | |
| | ### PATERIAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
| | ### FERIAL MC. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 200 | | | • |
| | ### ### ### ### ### ### ### ### ### ## | | | | | .2325.00 |
| | ## FERIAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 364€.44 € | | | . 2326 . |
| | ### FERIAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | 1 | | ľ |
| | ## COLOR MATERIAL MC 1 1 1 1 1 1 1 1 1 | | | | 16.00 | |
| ### Company of the co | 891CGN MATERIAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | . 6635.88 | | • | |
| | ## CEPTAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 3615.66 | | | |
| ### Committee | 881CCA MATERIAL MC. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
| ### Company of the co | ## FRICK MATERIAL MC. | | • | | | |
| ### Company of the co | ### CRILL MC. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | - 1 |
| ### Company of the co | 8910CH MATERIAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ě | | | | |
| ### Company of the control of the co | ### 120 CC ### 1 | 3 3 1 | | | - | |
| ### 19 | 8810CH MATERIAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
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| ### STOCK ANTERIAL WG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ### ### ### ### ### ### ### ### ### ## | * | . 3645+84 | | | |
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| ### STOCK ANTERIAL WG. 1 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 | ### CELL NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | P7 | 128E+81 | | | |
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| ### PACK MATERIAL NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ### ### ### ### ### ### ### ### ### ## | | 9975. | | | |
| ### STOCK MATERIAL WG. 1 1 1 2246 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 881CCA MATERIAL MG. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
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| ## 1 | 8910CH MATERIAL MO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | . 2326 |
| ## STOCK MATERIAL NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ## 1 | | 5635+68 6 | | _ | |
| ### Control of the co | 8910CH MATERIAL MO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
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| ### PRICK MATERIAL MO. 1 3 1 1.156 | 8810CH MATERIAL MO. 1 3 1 1 158E CT 1 47E CT 1 158E CT 1 47E CT 1 158E CT 1 47E CT 1 158E CT 1 178E CT 1 1 | | . 5653. | | | |
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| ### PATCH MATERIAL MO. 1 3 1 1585-01 6525-00 4 5 1 1465-01 | ### ################################## | | | | | |
| ### PACK MATERIAL MG. 1 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | POTCH MATERIAL MG. 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 | MO. 1 1 1 1 | | . 5 . | | |
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| ## 3 1,725-11 1735-11 14326-11 4 5 3 3 1,1956-11 14656-11 4 5 5 5 5 1,1956-11 1465-11 | POTCH MATERIAL MG. 1 1 1 3 1 295 01 1 135 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 3 3 | . 936E+11 | | | |
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| # 3 1 .1956-01 .855-01 0. | # 3 1 .195e.01 .465e.00 .165e.00 .165e.00 .165e.00 .165e.00 .166e.00 .166e. | 3 5 3 | .1366+41 | | | |
| ### 1 1 1 3 946748 1 | POLICIA MATERIAL MG. 1 1 1 3 1946-41 1756-41 4 1 1956-41 4 1 1959-41 1 1959- | | . 805 E+ 30 | | | |
| ## 1 1 3 .946:40 0462:40 2 3 3 .123:41 .511:40 1462:40 2 3 3 .123:41 .511:40 1462:40 2 3 3 .123:41 .511:40 1462:40 2 3 3 .123:41 .511:40 1462:40 2 3 3 .123:41 .511:40 1462:40 2 3 3 .123:41 .511:40 1462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 .123:41 .462:40 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | POICCH MATERIAL MG. 1 1 1 3 19465-58 B. 15 37 15 37 16 595-11 465-596 1 1 3 1 665-10 1665-10 1 1 5 156-11 165-11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
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| 110E-01 .345E-01 .120E-01 3 2 5 .192E-01 .36.2E-00 .192E-01 .466E-00 .492E-01 .466E-00 .492E-00 .492E- | .1155-41 .3455-48 .1325-41 3. | | | - | - | |
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| 1 | | TEREBE NO. | - | - | | - | . 85 85 + 88 | . 363E + 88 | . 46 35 + 89 | 2 | - | | . 931E +18 | . FELE . M | . 4635. |
| ### Company of the co | | | | - | • | - | .15 BE+ 01 | .663€+00 | . 46 35 + 81 | - | | - | . 7 82E + 86 | .5825+00 | . 6636 . 84 |
| ### Color Mat Part Land | | | | - | • | • | .1286.81 | .1205.1. | . 4636 . 80 | - | - | | . 9956 . 88 | . 3525+10 | |
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| Column C | - | | - | - | | | . 1188.011 | 3452+88 | . 1205041 | - | • | | .1177 401 | 117. | . 8332. |
| 1 | | | | - | ~ | | .1725+11 | . 640E+00 | 1205+01 | - | ~ | | . 6656 . 10 | . 66 55 . 11 | . 1326 - 11 |
| 1 | | | | - | • | • | .1195+81 | | . 1296+91 | 2 | • | • | | M - 36 54. | 1285 +81 |
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| ### COLOR MATCRIAL NO. 1 1 1 1 1 1 1 1 1 1 | | | | ~ ~ | | | 1235.01 | 9575.00 | . 46 75 + 111 | N - | • | n v | | | 126 |
| | | | - | | | - | | | | | - | | | | |
| 1 | BRICKH | TERIAL MO. | | • | - | • | .1695+81 | : | . 46 35 . 88 | • | ~ | | .1956+11 | | . 6636+11 |
| | | | | • | •• | - | . 2 4 5 5 + 8 1 | | . 46 35 + 82 | - | ~ | | . 1696 + 91 | . 1866+86 | . 16 32 + 11 |
| POTCOL MATERIAL MO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | m 1 | ~ | . 226E+01 | | . 46 35 + 08 | m . | ٠. | | . 10ZE +31 | | . 844 E . 81 |
| ### Control of the co | | | | ., . | n . | | 1001 | . 5652 - 48 | . 40 32 • 00 | | | | 14.36.21 | | . 1336 |
| POTCOM MATERIAL MO. 1 1 1 1 2 128 | | | | - | - | • | 1 346 + 01 | | 10.3021 | • | , | | 10. 3922 . | | . 0 335 |
| POLICIA MATERIAL MG. 1 3 1 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | m u | 1943692 | 1. 975 6 46 6 | | , | ٠. | | | .6526+81 | 19366 |
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| POTCON MATERIAL NO. 1 1 1 2 200 1 100 1 1 1 1 1 1 1 1 1 1 1 | | | | , , | | | 2075481 | | | | | | 164 30 6 7 | | |
| ### PROTECT HATCRIAL NO. 1 1 1 2 1198 | | | | | 4 60 | n m | .2485+81 | - | . 4636.00 | , ,, | . ~ | | 1926.11 | 3632+00 | 1206.01 |
| ## STATES 1.2 | | | | 1 | | | | | - | - | | | | | |
| Second Harerial Ho. 1 1 5 1785-01 17 | | TEREBE MO. | | - 4 | n r | | 1842481 | 9155400 | 10.75.04 | • • | • • | n = | 16.20.11 | 78476410 | 10.35 |
| ### SPECIAL NO. 1 1 5 1/200-11 1/200 | | | | | , • | , | 1736+61 | | 10 × 20 0 | , ., | | | 1895 001 | .6575+00 | ATAFOR |
| ### SPICCH MATERIAL NO. 1 1 5 11720-01 1286-01 5 5 6 11770-01 17720-01 | | | | | | | . 128E+61 | | . 4635+86 | • | - | | . 276E +91 | .386€+00 | 8335+88 |
| ## 1756-01 - 9356-01 - 1278-01 137 | | | | - | - | | .1725+81 | . 643 €+88 | .1285+61 | • | • | | 1785 . 11 | .1735+81 | . 6335+60 |
| ### STOCKN MATERIAL MG. 1 1 5 1155-01 1156-01 1286-01 5 5 5 5 1286-01 5 5 5 5 5 1286-01 5 5 5 5 5 5 5 5 5 | | | | | | | . 226E+01 | . 935E+00 | .128E+01 | F | • | | .117E - 11 | .117E+01 | . 8336 + 88 |
| 29 CCM MATERIAL MO. 1 1 5 1156-01 1356-01 4658-01 5 6 5 1 1 5 1 1456-01 1 1569 1 1 1569 1 1 1569 1 1 1569 1 1 1569 1 1 1569 1 1 1 1 5 1 1569 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | • | | | 1735 + 81 | 11738.01 | 10.3021 | • | - | • | 104 3002 | .788E+ 84 | 18428211 |
| ## 3 3 1355-01 14626-01 | | | | - | | | . 115€+01 | .115E+81 | . 128E+81 | • | • | ~ | . 21.2E +11 | .1366+11 | 11285.11 |
| POTCON MATERIAL NO. 1 1 1 5 .1950-01 11280-01 2 3 5 .1960-01 1000-01 2 3 5 .1960-01 1000-01 2 3 5 .1960-01 1000-01 2 3 5 .1960-01 1000-01 2 3 5 .1960-01 1000-01 2 3 5 .1960-01 2 3 5 . | | | | • | n . | m . | .1955+01 | . 3696 - 00 | . 46 35 - 66 | • • | • | | 10.22 | 10.3241 | 11.322 |
| 1 1 1 1 1 1 1 1 1 1 | | | | • | | , | | 113051. | | , | • | • | 11036011 | | |
| ### 1 5 - 1992-011 1 1 2 3 1196-01 1 1 2 3 1 1 0 1196-01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | BOICKH | TERIAL MO. | | •• | - | | .1546+01 | : | . 120E+01 | 2 | • | • | . 1 . 05 . 01 | . ** 96 ** | 1206.01 |
| ### 1 | | | | • | + | • | 1842661. | - | 1286961 | | 2 | • | . Isbent | 16 a 3 a a 2 . | 1205.01 |
| 1 1 2 5 1150 1 1 1 1 1 1 1 1 1 | | | | - | m | | .172E+81 | | . 1205 + 01 | - | | • | . 1 00E - 11 | | . 1556 + 81 |
| ### 1 | | | | | m . | | 1195 +01 | | 12me+01 | n . | ٠, | | 11.517 | | |
| ### PACK HATERIAL HO. 1 1 3 5 1156-01 1906-01 2 1 7 2286-01 0. ################################### | | | | | 4 - | | 2196+01 | | 10.540 | | - | | 1 4 4 6 4 9 1 | 1276.00 | |
| 1 1 1 1 1 1 1 1 1 1 | | | | | m | | 1895+01 | | .194E+81 | 2 | - | | .2225 | | |
| 31 2 5 11575-01 3.0505-00 1205-01 2 3 7 11675-01 1.0595-00 1205-01 1 2 3 7 11675-01 1.0595-00 1205-01 1 2 3 7 11675-01 1305-00 1205-01 1 2 2 7 11055-01 1305-01 1205-01 1 2 2 7 11055-01 1305-01 1205-01 1 4 5 10055-01 1305-0 | | | - | + | • | | | | 1142611. | • | ~ | - | . 2176.11 | . 3982 . 84 | . ISKEPE |
| 931CKH MATERIAL MO. 1 1 3 5 .115E*01 .345E*08 .128E*01 1 2 7 .100E*01 .344E*08 .128E*01 1 4 5 .004E*08 .004E*08 .178E*01 .476E*01 .128E*01 1 4 5 .004E*08 .004E*08 .178E*01 .128E*01 1 1 4 5 .004E*08 .004E*08 .178E*01 .128E*01 1 1 4 5 .004E*08 .004E*08 .178E*01 .128E*01 1 3 5 .178E*01 .128E*01 1 3 6 .128E*01 .138E*01 . | | | | 2 | - | | | • | .128E+61 | 2 | • | ^ | .1676+91 | . 40 95 + 84 | .196. |
| ### ### ############################## | | | | • | ~ | • | .1925+81 | | .120€+01 | - | ~ | - | . 1006 -11 | .3046.00 | .19461. |
| 3 5 4.720-01 6.610-01 4.200-01 1 4 5 6.0000-01 1.0000-01 | BRICKH | TERIAL MO. | | • | | | .1156+01 | | .1206+01 | ~ | 8 | • | | . 10% | .1205+01 |
| 9 4.196**** 1196**** 1266*** 1397*** 1 | | | | • | | 2 | .17 25 + 01 | | . 1286+81 | | • | • | . 119. | . W3E+10 | 1286.01 |
| 5 5 1.050 | | | 1 | • | • | • | .1196+11 | .1195.81 | .1808-01 | 1 | • | | 1188411 | . 3872+84 | . 1986+1 |
| 3 7 .1465+01 .3316+00 .1946+01 3 5 5 .1118+01 .1118+01 3 7 1.1395+01 .4558+01 .4568+ | | | | - | | | . 665 5 + 88 | • | .120E+01 | m | ~ | 9 | 1798+91 | . 667E+80 | .1576+11 |
| 3 7 .1895-81 .6456-81 .1946-61 1 5 6 .6556-80 .6656-80 .6656-80 .6656-80 .1846-81 3 4 7 .18476-81 .4496-80 5 7 .6656-80 .1846-81 3 4 7 .1845-81 .4496-80 5 7 .6656-80 .1846-81 3 4 7 .1845-81 .4496-80 5 7 .1845-80 .1846-80 5 7 .1845-80 .18 | | | | | * | 1 | .1465+81 | | .1946+61 | • | • | • | .111E +01 | .1115.01 | . 157E+11 |
| 9 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - | | | | * | • | | .1896+01 | | .1946+61 | - | • | • | . 665E+98 | .6655+80 | . 157E+11 |
| 5 7 .665E+88 .665E+88 .194E+81 3 4 7 .154E+81 .888E+88 .1145F+81 .988E+88 .1145F+81 .988E+88 | | | | • | • | | .120E+01 | .1205+01 | 1946.61 | ~ | - | ^ | .167641 | . ** 96 * * | . 1946+11 |
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| | - | | | ~ | • | • | 1143641. | . 489648 | . 1202011 | 2 | • | | . 9612. | . 1812. | . 1946. |

| 1 | BRICKH MATERIAL NO. 1 BRICKH MATERIAL NO. 1 BRICKH MATERIAL NO. 1 BRICKH MATERIAL NO. 1 | 7 | × | | | | | | | | | , |
|--|--|----------|---|--------------|----------------|--------------|----------|-----|-----|---------------|--------------|--------------|
| ## Color Material No. 1 1 2 2 2 2 2 2 2 2 | BRICKH MATERIAL NO. 1 BRICKH MATERIAL NO. 1 BRICKH MATERIAL NO. 1 | | | | | | | | | | 7815.80 | . 205.48 |
| ### Company of the control of the co | SPICKH MATERIAL MO. 1 SPICKH MATERIAL MO. 1 SPICKH MATERIAL MO. 1 | - | | 1 335 . 01 | | 100 - 101 | | | | 10000 | | |
| STATE STAT | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | - | 2 | .245E+01 | | . 120E+C: | 3 | 2 | | | . 36 3E + 60 | 12021 |
| ### STATE OF THE PROPERTY OF T | SPICKH MATERIAL NO. 1 SPICKH MATERIAL NO. 1 SPICKH MATERIAL NO. 1 | m | s | .226E+01 | . 935 E+00 | . 120E+91 | ~ | | 9 | | | .1566+11 |
| ### PATERIAL NO. 1 1 7 258501 194001 1 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | ~ | | .172F +01 | .640 E+00 | .120F+01 | u | - | 9 | . 245E+01 | | .157E+01 |
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| ## Comparison of the control of the | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | • | | 10.20. | | 10.346.11 | | , , | | | | |
| BRICKH MATERIAL NO. 1 1 1 2 1225 11 1305 10 1344 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | SPICKH MATERIAL NO. 1 SPICKH MATERIAL NO. 1 SRICKH MATERIAL NO. 1 | - | | 10.36.70 | | 10+3461. | • | • | | 11.36.11 | **** | 1 |
| ## PRICKH MATERIAL NO. 1 1 1 7 -2225-11 605-00 -1344-01 5 2 7 -2245-11 -395-01 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | m | | .226E+01 | .936E+00 | .1946+01 | | - | _ | . 237E+81 | : | . I WE . |
| ## STATE OF THE PRINT HO. 1 3 5 2 7 2272 10 1 10 10 10 10 10 10 10 10 10 10 10 1 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | m | 1 | . 1 89E + 01 | .648E+00 | .194E+01 | 2 | 2 | 2 | . 240E+11 | .477E+80 | 1946+11 |
| ## PRINT NO. 1 3 5 2 2265 11 4005 0 1205 0 1 5 7 7 2175 11 1005 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | | | | | .120F+01 | 4 | - | 1 | . 709E+81 | .789E+80 | 1966. |
| ### PRICK MATERIAL NO. 1 3 1 7 125 1 1 105 1 105 1 105 1 1 1 1 1 1 1 1 1 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | | | | | 1205 | | | | 20.75 480 | TOBELLOO | 10161 |
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| ### PATERIAL NO. 1 1 1 7 1272 1 195 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | 2 | • | 11/25 401 | 00.000 | 104391 | | • | • | 1456 | | |
| | SPICKH WATERIAL MO. 1 BRICKH MATERIAL MO. 1 | - | 2 | . 22bt + 01 | . 935E+00 | . 120E+01 | ~ | * | | . 1 . 3 0 1 | . 88 ZE + 88 | 10.3021 |
| ### STATE OF THE PROOF OF THE P | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | ľ | 2 | .173E+01 | .173E+01 | .120E+01 | • | ~ | 9 | 1796+01 | .6 27 E+ 00 | 157611 |
| ### PATERIAL NO. 1 1 3 7 2.2000 01 194001 5 5 6 6 117001 17000 17000 01 194001 5 5 6 11700 17000 01 194001 5 5 6 11700 17000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 5 7 11000 01 194001 5 7 1940 | SPICKH MATERIAL MO. 1 SPICKH MATERIAL MO. 1 SPICKH MATERIAL MO. 1 | • | 2 | .115E+01 | .115E+01 | .120E+01 | 41 | ~ | 9 | . 226E+11 | .936E+80 | . 157E+81 |
| ### PRICKH MATERIAL NO. 1 1 7 2256 01 0 1266 01 1346 01 1 2 2 6 6 1118 01 1186 01 1366 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | | 1 | 1895+01 | .648 E+00 | 1946+01 | 8 | 5 | 4 | . 1 73E +91 | .173E+01 | .157E+ 81 |
| 831CKH MATERIAL NO. 1 1 7 2256-01 130E-01 139E-01 | SPICKH MATERIAL MO. 1 SPICKH MATERIAL MO. 1 | , . | | 0000 | 9356 | 1016101 | | u | , , | | | |
| ### PRINCH HATERIAL NO. 1 1 7 2295-01 1396-01 | BRICKH HATERIAL MO. 1 BRICKH HATERIAL MO. 1 | - 1 | | 10.3022. | . 335 | 10.361. | n . | | | TITE AND | 10.50 | 10.00 |
| ### STATES 1 | SPICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | 2 | | .17 3E + 01 | .173E+01 | .194E+01 | , | ~ | _ | . 209E +01 | . /8 9E+80 | |
| ## 5 5 2016-01 .196-01 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | s | _ | . 120E+01 | . 120E+01 | .194E+61 | 2 | * | _ | . 20 3E +81 | .1666+01 | . 194E+81 |
| BRICKH MATERIAL NO. 1 1 1 7 .2195**** .1305*** .1305*** .1305*** .1305*** .1305**** .1 | SRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | • | 5 | .200E+01 | . 7 90 E + 0 0 | .120E+01 | , | s | 2 | .166E+01 | .146E+01 | 1986.01 |
| ### CATCKN WATERIAL NO. 1 1 1 7 .218F**** 1918******************************* | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | | 2 | .203E+01 | .135 E+01 | .120E+01 | 8 | 3 | | . 1 64 6 + 81 | . 88 0E+ 08 | . 194E+81 |
| ### CATOMATION 1 1 7 -218E-01 0 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | | | | | | | | | | | |
| 1 | BRICKH MATERIAL MO. 1. | | | . 2156+01 | | . 194E+01 | 2 | n | - | .1677.02 | . 1892+86 | 1946. |
| 1 1 2 2.255 1 2.255 1 3.05 | BRICKH MATERIAL MO. 1. | - | _ | . 2 30E + 01 | | . 194E+CI | - | 2 | | . 166E +01 | . 30 *E + 80 | 1 346 |
| 1 3 7 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | ~ | - | .189E+81 | . 648 E+00 | .1945+01 | - | - | • | . 215E+01 | : | . 2176+81 |
| 1 9 -216E-01 . 244E-01 . 3 0 . 146E-01 . 3 0 | BRICKH MATERIAL MO. 1 | m | 1 | .146E+01 | . 330 E+00 | .194E+01 | m | -1 | • | . 230E+01 | | .217E+81 |
| 3 1 9 120E+01 1 3 150E+01 1 3 150E+01 130E+01 130E+0 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | - | 6 | . 215E+01 | 9. | .241E+01 | m | | • | .187E+81 | . 6 82E+ 00 | . 217E+01 |
| 3 3 4 4 4 4 4 4 4 4 | BRICKH MATERIAL MO. 1. | - | 6 | . 230E+01 | | . 241E+01 | 7 | m | | . 1 46E +81 | . 38CE+ 00 | . 217E+01 |
| BRICKH MATERIAL NO. 1 1 3 7 -146E+01 330E+00 -246E+01 1 2 9 164E+01 346E+00 | BPICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | * | | 1 ALF+81 | .612E+00 | .2415+61 | | - | • | . PEPE +111 | | . Philippe |
| BRICKH MATERIAL NO. 1 1 7 .2222-01 | BRICKH MATERIAL MO. 1. | | | 1045401 | TABEADA | 2415401 | . ~ | | | 2166481 | TOIFEBB | 2416.00 |
| BRICKH MATERIAL NO. 1 1 3 7 .2177-01 .390E-01 1 2 9 .106E-01 .300E-01 1 2 9 .106E-01 .330E-01 1 3 7 .106E-01 .300E-01 1 3 9 .106E-01 .300E-01 .3 | BRICKH MATERIAL NO. 1 BRICKH MATERIAL NO. 1 | | | 2225 4 84 | | 101111 | , , | | • • | * 645 484 | | 2416 |
| BRICKH MATERIAL NO. 1 1 3 7 .1666-10 .396-01 1 2 9 7 .986-01 3 7 .1666-11 .396-01 1 3 7 .1666-11 .396-01 1 3 7 .1666-11 .396-01 1 3 7 .1666-11 .396-01 1 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | BRICKH MATERIAL MO. 1 BRICKH MATERIAL MO. 1 | | | | | 10.361 | | , , | | 10000 | | |
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| BRICKH MATERIAL MO. 1 3 7 1.005-01 1.00 | BRICKH HATERIAL MO. 1 | • | | ******* | 7705440 | 1015101 | , | | | 0012100 | 98.5.00 | |
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| 1 5 7 .466F01 .53FF00 .55F10 .55F10 .55F10 .15F10 . | BRICKH MATERIAL MO. 1 | • | _ | .120E+01 | .120 E+01 | .194E+01 | - | ~ | • | 11000 | . 350E+ B | . 21/E+11 |
| 3 5 9 -146EF01 -33EE01 | BRICKH MATERIAL MO. 1 | S | | .665E+88 | · 665 E+88 | .194E+01 | m | m | • | .107E+11 | .682E+00 | . 217E+81 |
| 3 3 9 .10EF01 .62EF00 .24EF01 1 5 6 .5EFF00 .66EF00 .6 | BRICKH MATERIAL MO. 1 | • | 6 | .146E+01 | . 330 E+00 | .241E+01 | m | 2 | • | 1155 +01 | .115E+01 | .217E+11 |
| 3 5 9 .108E+01 .24E+01 2 5 9 .164E+01 .665E+00 2 5 9 .164E+01 .665E+00 2 5 7 .167E+01 .665E+00 2 5 7 .167E+01 .665E+00 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | BRICKH MATERIAL MO. 1 | m | 6 | .184E+01 | .612E+00 | .241E+01 | - | 2 | • | .665E+01 | .665E+00 | . 217E+11 |
| 2 3 7 .16FF401 .409E401 .244E401 2 5 9 .604E401 .746E401 | BRICKH MATERIAL MO. 1 | v. | 6 | . 108E+01 | .108E+01 | .241E+01 | 2 | ~ | 6 | . 164E+01 | . +6 LE+ 00 | . 241E+01 |
| 2 3 7 .16FE*01 .49E*01 2 5 9 .66FE*08 .66E*01 1 4 9 .66FE*08 .66GE*08 .66GE | BRICKH MATERIAL MO. 1 | 4 | 6 | *665E+88 | 665€+88 | . 2416+61 | • | | + | 1456+11 | . 786E+00 | . Phile with |
| BRICKH MATERIAL MO. 1 3 1 7 .238E+01 0. 194E+01 1 4 9 .101E+01 .356E+00 | BRICKH MATERIAL MO. 1 | ~ | | .167E+01 | 0043684° | -194F+01 | 2 | 8 | • | . 86 BF +88 | .860E+80 | . 244E+11 |
| BRICKH MATERIAL MO. 1 1 7 .230E+010194E+01 4 3 7 .229E+01 .709E+00 1 9.09E+01 3 2 7 .277E+01 .709E+00 1 9.09E+01 3 2 7 .277E+01 .709E+00 1 9.09E+01 3 2 7 .277E+01 .709E+00 1 9.09E+01 3 3 7 .277E+01 .709E+01 9.09E+01 9 .245E+01 9 | BRICKH MATERIAL MO. 1 | | _ | .154E+81 | . 888 E+08 | .194E+01 | - | , | • | . 101E+91 | .356E+86 | . 241E+81 |
| BRICKH MATERIAL MO. 1 3 1 7 .236F401 0194E+01 4 3 7 .279E+01 .799E+01 .390E+01 6 3 7 .227E+01 .799E+01 .390E+01 6 3 7 .227E+01 .390E+01 6 3 3 7 .226F+01 .990E+01 6 3 1 9 .236F+01 6 649E+01 649E+01 5 1 8 .237E+01 0 .245E+01 5 1 8 .237E+01 10 .245E+01 5 1 8 .237E+01 10 .245E+01 6 2 641E+01 5 3 8 .237E+01 6 2 641E+01 5 3 9 .237E+01 6 2 641E+01 6 641E+01 6 641E+01 6 641E+01 6 641E+01 641E | BRICKH MATERIAL MO. 1 | | 1 | | | | | | , | | | |
| 1 7 2.455F-01 0. 1946-01 3 2 7 2.275C-01 390E-00 3 7 2.275C-01 390E-01 | W W W W W W | - | _ | . 230E+01 | .0 | .194E+01 | • | ~ | _ | · 209E +11 | .789E+86 | . 194E+11 |
| 3 7 .189Er01 0. 194Fr01 3 1 0 .29EF01 0. 196E01 0. 196E0 | | - | 1 | .245E+01 | | . 194E+01 | m | ~ | _ | . 217E+01 | . 390E+00 | . 1946+ 11 |
| 3 7 1.1899+81 .6466+00 .1944+01 5 1 6 .2456-01 0. 1 9 .2366-012416-01 5 3 6 .1876-01 .9866-00 . 3 9 .2266-01 .936-00 .2416-01 6 1 9 .2876-01 0. 3 9 .1846-01 .936-00 .2416-01 6 1 9 .276-01 0. 3 9 .1846-01 .946-01 .4946-34 6 3 9 .2876-01 .776-00 . | m m un un m | 3 | 2 | 1926E+81 | 6935€+00 | . 194E+81 | m | * | • | . 230E +91 | | . 217E+11 |
| 1 9 .230E+01 0241E+01 5 3 6 .20EE+01 .90EE+00 3 9 .245E+01 0.90EE+01 .90EE+01 .90 | in in in in | m | | . 189E+01 | . 648E+00 | .194E+01 | 5 | - | • | .245E+01 | | .217E+01 |
| 1 9 .245E+01 0.35E+00 .241E+01 4 1 9 .27E+01 .632E+00 3 9 .104F+01 .612E+00 541E+01 5 2 9 .27E+01 0.27E+01 10.27E+01 | , www.m | - | • | . 230E+01 | | . 2415 +01 | 2 | - | • | . 276E+01 | -986E+00 | . 217E+81 |
| 3 9 .256501 .935500 .41501 4 1 9 .237501 0 | | | | 2465401 | | 2415401 | . ~ | | | | . 6.32E+ BO | 21764 |
| 3 9 1.06-04 0 1.05-00 1.04-04 5 2 9 2.06-04 1.07-04 1 1 7 1.05-04 0 1 1.05-04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | n m | | | 2266461 | 016 5400 | 2416401 | , , | | | 277648 | | 24.6 |
| TOLINGS CONTINUES OF S S STATEMENT S | | , , | | 1010101 | 43649 | 2445+01 | • • | ٠, | - 0 | 20000 | **** | 10.75 |
| DEPTH STATE OF STATE | | ٠. | | 1000 | | 10.2167 | n - | | • | 100000 | | 10.15 |
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| 10 04104 | HAILERIAL MO. | | , . | | | | | | | • | | | |
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| | | | | | 1206.01 | 1286461 | | | . ~ | | 2005 | | 2176 |
| | | - | | | | | 20.00 | | | | | | |
| | | | , . | | 1000000 | 100 | 2416401 | | | | | | 2176 |
| | | | | | 10.7077 | | | , , | | | | 77.6.00 | |
| | | | | | | | 24.6.01 | | | • | | | |
| | | | | • | | | | | | | | | |
| | | | • • | | .2036+01 | 135 € + 01 | | | | := | 10.36.11 | .7866.00 | 2415+11 |
| .7 astre | MATERIAL MO. | | | | . 2456+61 | | | • | 1 | | 2006 +01 | . 3565. 80 | |
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| | | | | • | 100000 | | | | | • | | | |
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| | | | | 1 | 1143022 | .935 6+80 4. | | | 2 1 | | 11.3262 | | . 2322 |
| | | | • | | . 245E+81 3. | | | | , | | . 2632 • 11 | . 36 35 + 86 | . 232E. |
| - | | - | - | | 111-3262 | | . 4632 + 90 | | 2 | | | . TEEE+ 11 | 10 4 7 25 2 . |
| | | | | - | . 2335+81 | . 963E+BB | . 4635+00 | 9 | - | | | | . 463E+11 |
| | | | • | | .2266+01 | . 935 E+08 | . 46 X + 00 | 1 | 2 | .2. | .247E+81 | . 691E+88 | . 4636+1 |
| | | | • | - | . 248E+81 | : | | • | 3 | .21 | 2295 + 11 | .95 BE + 18 | . 4638+ 88 |
| | | | 2 | - | .247E+81 | . 491 E+88 | | • | 2 | 2. | .2416+11 | | . 463E . 11 |
| - 1 | | | | | | | | | | | | | |
| 18 SKICK | METERIES MOS | | | • | 10.2022 | 0615548 | | o w | , , | • | 20.36 401 | 1000 | |
| | | | | • • | 1786.00 | 1786 | | | | | 276.6 | | . 2325 . 80 |
| | | | | | 1786+81 | 1776.81 | | | | | 2335+81 | 96.35 . 00 | 2120 |
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| | | | • | | .2 295+81 | . 990E+88 | • | • | | | 1786+81 | 175E+11 | . 4636+88 |
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| 19 BRICK | HATEPIAL MO. | 2 | | | | | . 4035 + 88 | | | | | . 75 00 | |
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| - | ELENENT | | ELENENT | - | TYPE | NOCE | AAL UE | | | |
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| | 2 | - | - | | 2 | • | 296.05-82 | | | |
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| | | | | | 27 | • | 3470E-02 | | | |
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| | | | | | SLOPE | • 10 | .14256+64 | .14255.04 | .1125E+04 | .14256+ |
| | : | | - | - | 27 | , | C. Things. A. | | | |
| | | | | | 20 | | 31706-02 | | | |
| | | | | | 20 | | 384 DE-02 | | | |
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| | | | | | 20 | | -, 435 0E-02 | | | |
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| | | | | | SLOFE | 2 | | | | |
| | 15 | m | | 1 | 7.5 | , | 15705-02 | | | |
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| TINE IN | TIME IN SETUP | | | -, | 3.438 SECONDS | SO | | | | |
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MAXIMUM ACTIVE STORAGE = 19802

0.0.f. IN FROME - 184

TOTAL NUMBER OF 0.0.F.S = 624

| INE IN BACKSUS | | |
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BLOCK OPTION

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| x | 1000E+21 | -10 | 00E+21 | | 1 | • | |
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| 2 | 1000E+21 | -10 | 00E+21 | | K | 0 | 0 |
| PRINT | LEVEL = 4 | | | | | | 44 |
| STRESS | POINTS FOR | BRICKED | EGEN) EL | EMENTS | | | |
| POINT | 51 | 52 | \$3 | | | | |
| 1 | | -1.000 | -1.000 | | | | |
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| | | 1.000 | -1.900 | | | | |
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| 6 | | -1.600 | 1.000 | | | | |
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| | | 1.600 | 1.000 | | | | - |
| 9 | | 0.000 | 3.000 | | | | |
| STRESS | PCINTS FCR | PRISP E | LEMENTS | | | | |
| POINT | \$1 | ss | \$3 | 54 | | | |
| 1 | 1.000 | G.000 | 0.000 | -1.000 | | | |
| 2 | 0.000 | 1.000 | 9.000 | -1.000 | | | |
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| 4 | 1.000 | 0.000 | 0.000 | 1.000 | | | |
| 5 | 0.000 | 1.000 | 0.000 | 1.000 | | | |
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| STRESS | POINTS FOR | WEDGE E | LEMENTS | | | | |
| POINT | Si | SZ | 53 | | | | |
| 1 | .050 | e. 000 | -1. 100 | | | | |
| 2 | 1.060 | 6.000 | -1.0CQ | | | | |
| 3 | 1.000 | 1.000 | -1.0 CQ | | | | |
| 4 | | 0.000 | 1.000 | | | | |
| 5 | 1.000 | 0.000 | 1.000 | | | | |
| | | 1.000 | 1.000 | | | | |
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| STRESS | POINTS FCR | TETRA E | LEMENTS | | | | |
| POINT | 51 | 52 | 53 | 54 | | | |
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| 2 | 0.000 | 1.000 | 0.000 | 0.000 | | | |
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|-------|------------|-------------|---------------------------------|--------------|---------------|----------|--------------|------------|---------|-------------------------------------|----------|---------------------------|---------------------------------|------------|
| | - | | .21 | 210 1E-01 | .37758-09 | | 218 4E-81 | 17745+00 | | | | | | |
| - | - | - | 11. | 10-31201 | . 35851 - 89 | - | 18 92E-01 | 184 HE . | 11.3 | And the capital company of the same | - | - | | - |
| - | - | - | * | .94926-02 | . 3927E-02 | | 1092E-01 | 10115+00 | 00+3 | | | | | |
| - | - | - | .19 | . 1930E-01 | . 81825-02 | | 2184E-01 | 17936 . 11 | 11.3 | | | | | |
| | - | | -15 | .1519E-01 | .38986-89 | | 2204E-01 | 1823E+01 | 11.3 | | | | | |
| • | - | • | | . 644 BE-12 | . 36165-09 | | 997 96-12 | 197cE . 00 | 11.3 | | | | | |
| - | | - | .62 | .6244E-02 | .2767E-02 | | 9745E-12 | 1995 | E | | | | | |
| - | - | | 11. | 14116-41 | .7230E-02 | | 10-31602. | 1803E + 18 | 11.2 | | - | manufactured of the first | And in constitution of the last | |
| ~ | - | - | .14 | .1464E-01 | 1020E-08 | | 1638E-01 | | | | | | | |
| n | ~ | | .98 | .9839E-02 | . 20315-02 | | .11922-11 | | | | | | | |
| ~ | - | | .13 | .13456-01 | .5765E-02 | | 1638E-81 | | | | | | | |
| - | ~ | - | .26 | .2697E-01 | . 4 110E - 02 | | 2184E- 01 | | | | | | | |
| | - | ~ | .18 | . 180 36-01 | 719EE-09 | | -, 21 98E-01 | | | | | | | |
| • | - | 2 | 2. | .741 3E-02 | 8473E-09 | | . 18 222 61 | | | | | | | - |
| | - | 2 | .72 | .72956-02 | . 38825-12 | | 106 3E-81 | | | | | | | |
| | - | 2 | .16 | .16736-01 | .7*71E-02 | | 214 3E-01 | | | | | | | |
| 2 | - | | 8. | 95396-02 | 1042E-88 | -5 | 1530E-01 | | | | | | | |
| | ~ | - | 29. | .62985-02 | . 1348E-02 | | 9613E-02 | | | | | | | |
| 2 | - | • | 69. | 8976E-02 | . 3978E-02 | | 1510E- 01 | | | | | | | |
| | - 2 | - | | 14736-81 | .3476-02 | - | 18-396120 | | - | | | | - | |
| ESS | ES FOR | BRICK | STRESSES FOR SRICKH ELEMENT NO. | | 1 MATERIAL = | | | | | | | | | |
| POINT | | | | 2 | SIGNAR | SIGHAY | SIGHAZ | TAUXY | TAUYZ | TAUZK | STGMAI | STGML | SIGHAS | TAUMAX |
| | 34E. | .9 .00+346. | | | 14E+04 | 845+83 | | 88 E+00 | 28-387- | .875. | | - ITEORY | 185 + 18 | 77. |
| | | | | | 19E-t1 | .225-01 | 88E-03 | 14E-03 | 12E-05 | .136-02 | 10-322 | 78E-03 | 196 | . 426-01 |
| ~ | . 175 +01 | +01 0 | | : | 136+64 | 115+04 | 115 - 84 | 53E+Bt | 116+02 | 965.01 | 116+64 | 116+84 | 13E+B | .996 +82 |
| - | .166.91 | | .666+88 | | -126+86 | -115486 | -116 | 596.87 | 20-17 | -1156-12 | | . 57E-82 | 92E- 62 | 166-41 |
| | | | | | £7E-02 | .34E-02 | .455-02 | 9.E-12 | 62 E-13 | 17E-02 | . 526-12 | .456-02 | 86E-02 | 10-101 |
| | . 972 +00 | | .385+80 | | 135+84 | 916+83 | | 192083 | .782901 | 2843110 | SAE . BB | 116.64 | Inc . Ba | : 27. |
| | 345 | | | ******* | 12E-61 | .17E-01 | . 67E-03 | 10-362- | .126-02 | .186-82 | . 236-01 | .73E-83 | 19E-01 | . 62E -01 |
| • | | | | | | -23F-01 | 765-84 | 226-02 | The-02 | 706-02 | - 70E+03 | | - 105 | |
| 9 | . 17E+01 | | | .466+39 | | 12E+04 | 126 +04 | 17E-01 | .274.01 | .766+82 | 122 +84 | 126+04 | 100 | . 036 + 02 |
| | | | | | | , 39E-12 | · 86 84 | 20E-05 | .436-03 | .125-01 | . 426-62 | .38E-82 | 66E-02 | . 13E - |
| | . 166 • 01 | | . 882.80 | . * 66 + 5 5 | 9 132064 | 10.221. | | 200322 | 284362 | .786982 | 172.00 | 122.004 | 16g.Be | |
| • | . 87F +88 | | 365+00 | . 466+08 | | 186 + 84 | 115 | 166+04 | 20-305 | 10-374 | 20-36- | 20-36 | 7 | 110 |
| | | | | | | .116-01 | .515-82 | 266-01 | .97E-32 | 7 BE- 83 | 196-81 | 356-02 | | 376-01 |
| • | .13E+01 | | .26E+00 | .23E+#B | Ĺ | 11E+04 | 115 + 84 | 556+12 | | .26F+02 | 1000 | | | |
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| | - | •10 | 19366-01 | . 8182E-02 | | 2184E-01 | 1793: • 00 | 900 | | | | | |
| | | | 20-22-46 | 39276-02 | | 10 326-01 | -11911 | | | | | | |
| 2 | | | .7777E-02 | .7777E-02 | | 1092E-01 | 1856. • 00 | 00 - 1 | | | | | |
| 1 5 | - | .1. | .149EE-01 | .14966-01 | | 218 .E-01 | 1752E + 00 | 00 + 3 | | | | | |
| 1 3 | - | .14 | .14116-81 | .7 230E - 02 | | 2051E-91 | 18635.06 | 90. | | | | | |
| 3 | | .62 | .62446-02 | -27675-02 | | 97 45E-02 | 199E+00 | 00 + 3 | | | | | |
| 3 8 | - | .53 | 5 32 1E - 0 2 | . 53216-02 | | 10 21E-01 | 1993: • 06 | 90. | | | | | |
| 1 9 | • | .11. | .1191F-01 | . 11 316 - 01 | | 1949E-01 | 18615 - 00 | 00. | | | | | |
| 2 3 | | .13 | .1 34 SE-01 | . 5765E-02 | | 1638E-B1 | | | | | | | |
| , . | - | | . 886 2F-92 | . 5758E-02 | | 1092E-01 | | | | | | | |
| 5 2 | - | .10 | .1065F-01 | .10655-01 | | 1638E-01 | | | | | | | |
| , | | .17 | . 17 33F-01 | .11955-01 | | 2194E-01 | | | | | | | |
| 1 | ~ | .16 | .16736-01 | .7471E-02 | | 2163E-01 | | | | | | | |
| | | . 72 | 72456-12 | 30A2F-82 | | 19636-01 | | | | | | | |
| | | | 6216F-02 | 62145-02 | | 11 b OF - 01 | | | | | | | |
| | | | 1 30 36 -01 | 1 10 15 - 0 1 | | - 28 995 - 64 | | | | | | | |
| | | | 2016-02 | 20705-02 | | | | | | | | | |
| | | | 20166 | 30.60 | | 10 10101 | | | | | | | |
| | • | | 20.302 | 20-20666 | | 30.35.66 | | | | | | | |
| 2 | • | | . 74.35E-02 | . 7435E-02 | | 155 1E-01 | | | | | | | |
| | | | | | | | | | | | | | |
| ESSES FO | 36 96 IC | STRESSES FOR SRICKH ELEHENT NO. | | 2 MATERIAL = | | | | | | | | | |
| POINT | * | | 2 | SIGNAR | SIGNAY | SIGNAZ | TAUXY | TAUYZ | TAUZE | SIGNAL | SIGME | SIGNAS | CAMMANA |
| 10. 0. | 975+86 | 366+66 | | 136+64 | 925+03 | 115 | 196+83 | . 765.01 | .115+12 | 965.08 | | | |
| | | | | 12E-E1 | .17E-01 | .675 -13 | 30E-01 | .12E-02 | .186-02 | . 23E-01 | .73E-03 | 19E-B1 | . 126-0 |
| 11 .16 | . 16E +81 | . 566+00 | ; | 12E+84 | 115+64 | 11E + 04 | 606+02 | 52E+01 | 115+02 | 116+04 | 116+04 | 136 . 0 | . BGE +1 |
| | | | | E 6E-02 | .31E-02 | .45:-02 | 95E-12 | 82 E-03 | 17E-02 | 29-315. | .45E-12 | 066-82 | - 146 - |
| 12 . 12 | . 12E +01 | .1 2E+01 | : | 12E+04 | 12E+04 | 11E+04 | 97E+02 | 196+01 | 17E+82 | 116+86 | 11E+04 | 136.0 | . 366 - |
| | | | | 876-63 | 185-03 | . 336-02 | 15E-01 | 316-83 | 275-92 | 78-35. | .338-92 | B2E-12 | - 186 -0 |
| 13 .61 | . 67E+88 | .575+66 | : | 115+64 | 116+04 | 116 +94 | 256.13 | .925+81 | .976. | 895+83 | 116.04 | | |
| | | *** | ***** | 50-362 | 20-36-0 | 20-312 | 10-366- | 15 5-02 | .15E-02 | . cue-01 | 21-322 | 1 | |
| 14 . 97 | . 5/E +00 | *395+ | | .136.0 | 1115 | | 236-03 | 2000 | | 200 | -116 | - | |
| 71. | 165.40 | 66.6400 | . 466400 | 195-11 | 1055-05 | 20-316 | 10-362 | 20-100. | 765.03 | 126.04 | 125.46 | | 1 |
| | | | | 266-02 | 236-02 | 785-83 | 2118-02 | 486-02 | 125-01 | 545-82 | 296-82 | | 100 |
| 44 | 136 444 | 195484 | . 465+ 48 | 136.00 | | 1 35 | 686+89 | .735.00 | . 656+99 | | | | |
| | * | | | -115-63 | 316-03 | -1116-12 | 956-02 | 1115-01 | 105-01 | 546-02 | .45F-07 | | 166- |
| 17 .67 | .67E+90 | .67E+BE | .466+39 | 126+66 | 1 2E+ 04 | 115 . 04 | 216+03 | .195.01 | 135+02 | 98 6 + 63 | 116+04 | 146.0 | . 215 |
| | | | | £7E-03 | 1 9E-02 | . 825 - 92 | 33E-01 | .28E-03 | 21E-02 | . 155-61 | .81E-82 | 10E-01 | . 33E- |
| 110 .11 | . 11E+01 | .72E+66 | 235400 | 1 TF. C. | 404911 | 707 200 | 145407 | 175.60 | 235.83 | | | | **** |
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| • | | 91. | 10516-01 | . 3585E-09 | | -,1892E-01 | ~.18435 + 00 | 000 | | | | | |
| • | - | | 36 87E-02 | 11615-12 | | 12-386-11 | 1. 24635 . | | | | | | |
| • | 1 | .34 | 386 48-02 | .10015-02 | | . 33668-21 | -, Z 4.3ZE . | = | | | | | |
| • | | • | 21-32646 | . 3927 6-82 | | 109 24-01 | *.18116.06 | | | | | | |
| - | 1 | 49. | 20-30 449 | . 36165-09 | | 9979E-02 | ~ . 1970E+00 | 00 + 3 | | | | | |
| • | 1 | ž. | . 34296-02 | 10995-12 | | 3207E-03 | 1934E+00 | 00. | | | | | |
| • | | .36 | . 36616-02 | .17335-02 | | 3231E-03 | 1931E · DO | 00.3 | | | | | |
| - | - | 29. | 28-34429 | 20-31815. | | 29-36:16. | 38 4 3666 1 | 24. | | | | | |
| , | 1 | 19. | .617 8E-02 | 9563E - 09 | | 5460E-02 | | | | | | | |
| • | 1 2 | .37 | 37496-02 | . 87015-03 | | 88198-21 | | | | | | | |
| , | 3 | 99. | 6009E-02 | .257EE-02 | | 54 60E-02 | | | | | | | |
| • | 2 2 | .98 | 98396-02 | . 20 315 - 92 | | 119928-11 | | | | | | | |
| - | 2 1 | .7. | 74136-02 | 6473E-09 | | 10 22E-C1 | | | | | | | |
| | 2 1 | .36 | 36136-82 | . 5069E-12 | | I E4 EE- 83 | - | | | | | | |
| | 2 2 | 18. | 3799E-02 | .178GE-02 | | 155 2E-03 | | | | | | | |
| - | 3 2 | .72 | .7295E-02 | . 3582E-02 | | 10636-01 | | | | | | | |
| | 1 3 | 54. | . 4536E-02 | 9542E-E9 | | 3997E- 02 | | | | | | | |
| 5 | 2 | .35 | 356 16-62 | . 82965-63 | | 3207E-03 | | | | | | | |
| | 3 | 24. | 4582E-02 | .1998E-62 | | 3928E-02 | | | | | | | |
| | 5 2 | 24. | 20-38629 | -1346E-02 | | 961 3E-02 | | | - | - | The second second | | - |
| TRESSE | 5 FOR 9R | STRESSES FOR BRICKH ELEMENT NO. | | 3 SATERIAL . | | | | | | | | | |
| POINT | * | • | 2 | SIGMAX | SIGHAY | SIGNAZ | TAUXY | TAUY 2 | TAU2X CAMMAZX | STONE | SIGME | SIGNAS | TAN |
| • | 177.081 | | - | *.136+84 | | | .205.01 | 200311. | 962+81 | ILE. T. | *.116964 | 13Eville | 21. |
| : | | | | 136-61 | . 62E-12 | . 40E -02 | . 326-03 | 17E-02 | 155-02 | . 64E - 12 | .37E-02 | 136-01 | . 19 |
| 20 | . 245 +01 | | | 15 6+04 | 156+64 | 165 . 84 | . 335+00 | .176.00 | .91E+02 | 15€ . 84 | 156.04 | 17E . 84 | |
| | | | | 466-02 | .175-02 | | .52E-04 | .276-04 | 145-01 | 20-369 | .17E-02 | 10E-01 | |
| 21 | . 235 +01 | 345+00 | : | - 105+04 | 135-62 | 746-03 | 36F-02 | .645-02 | .16F-11 | 596-89 | 17F-62 | -116-01 | |
| ** | .186 +91 | . 555.00 | | 136 +64 | | 115 | 696+02 | 996 001 | 165.02 | 112.00 | 112.00 | -135+84 | - |
| : | | | | 94E-02 | . 325-02 | . 455-02 | 116-01 | 86E-03 | 25E-02 | . 525-12 | .46E-82 | 126-01 | . 171 |
| 23 | . 17E +01 | | .468+00 | 13E+04 | 12E+04 | 125 +04 | .916+00 | 29E+01 | ,12E+83 | 126.04 | 125.84 | 1%E+04 | . 12 |
| | | | | £1E-02 | .395-02 | . 865-34 | .146-03 | 32E-03 | .196-01 | . 695-62 | .396-82 | 136-01 | 2 |
| 54 | .24E+01 | : | . 465+00 | 12E+04 | 12E+04 | | . 35E+00 | . 95 E-01 | .36E+82 | 125+04 | 126.84 | 135 . 94 | . 37 |
| | | | | 18E-02 | .165-02 | 66E-03 | .55E-04 | . 15E-04 | .5 7E-02 | . 17E-92 | .16E-02 | 41E-82 | |
| 2 | . 236 + 81 | . 946.00 | | 126.00 | 125.04 | ***** | 665+61 | .176+82 | 28+384. | . 122 . | 122084 | 13E+B4 | |
| | | | | 17E-C2 | .185-82 | 668-13 | -· 10E-02 | .27 E-02 | -648-02 | . 27E-02 | .148-02 | 478-82 | 7. |
| 92 | . 16E+01 | .666+06 | .466+11 | 136+64 | 12E+0+ | 136+14 | 30E+02 | . 40E+02 | .106+03 | 125.14 | 12E+14 | 148+14 | .12 |
| | | 1 | | 48E-02 | .29E-02 | 63E-03 | 60E-02 | .63E-02 | .16E-01 | 20-309 | . 39E-02 | 12E- 01 | = |
| 22 | . 20E +01 | . 416+00 | .236+30 | 146+04 | 1 36 + 04 | 1 % +04 | 16E+82 | . 87 E+81 | .64E+12 | 125 + 14 | 13E+04 | 14E+ 04 | 3 |
| | | | | | | | | | | | | | |

| 1021334E-2124502+00 | • | | | | | • | | | | | | | | | |
|--|-----|--------|--------|------------|-----------|------------|----------|-----------|----------|----------|----------|------------|---------|---------|----------|
| 1,422E-02 1,56E-01 -1,96E-00 -1,99E-00 -1,99 | | | | 76. | 926-02 | -3927E- | • | 1092E-01 | 1811 | 00+3 | | | | | |
| 2 37777E 02 -1195E 01 -1199E 00 -119 | | • | | .31 | 16 DE-02 | .18016- | | 33446-21 | 2432 | | | | | | |
| 2 2767-02 -19945E-01 -1995E-00 -1995 | 2 | S | _ | .34 | 25E-02 | . 3422E- | | 1568E-21 | 2450 | 00+ | | | | | |
| 2 2705-02 -3745E-02 -1995E 00 -1995E | | 2 | | .77 | 1775-02 | -31177. | | 1092E-01 | 1856 | 00+3 | | | | | |
| 2 2704E-02 -3501E-03 -1997E-00 -1997E-00 -5704E-02 -51097E-00 -5704E-02 -51097E-01 -1997E-00 -5704E-02 -51097E-02 -51097E | | - | ~ | .62 | 24E-02 | .2767E- | | 9745E-02 | -1995 | 00 | | | | | |
| 2 2700-02 -33445-03 -19995-00 -2500-02 -34465-03 -19995-00 -2500-02 -34465-03 -34465-0 | 2 | m | _ | .36 | 1616-02 | .1733E- | | 3231E-03 | -11931 | 00. | | | | | |
| 2 2702-02 -5606-02 -5 | 2 | 2 | | .33 | 304E-02 | . 3304E- | | 32496-03 | -11959 | 00+3 | | | | | |
| 2 27020-02 -5560-02 - | | | • | | 1216-02 | .5321E- | | 10216-01 | 1993 | 00. | | | | | |
| 2 3701E-02 -500E-02 -1165E-01 -500E-02 -1165E-01 -1165E-02 -1165E-02 -1165E-02 -1165E-03 -1165E-03 -1165E-03 -1165E-03 -1165E-03 -1165E-03 -1165E-02 -1165E-03 -1165E-02 -1165E-03 -1165E-02 -1165E-02 -1165E-03 -1165E-02 -1165E-02 -1165E-02 -1165E-02 -1165E-03 -1165E-02 -1165E-02 -1165E-02 -1165E-02 -1165E-02 -1165E-02 -1165E-03 -1165E- | | • | - | 99. | 1C9E-02 | -20775- | | 5460E-02 | | | | | | | |
| 2 5556-C2 -1199E-C2 -1599E-C1 -1999E-C2 -1199E-C2 -1599E-C2 -1999E-C2 -1999E | | , | | .36 | 121E-02 | - 37 02E - | | 8996E- 21 | | | | | | | |
| 2 5.002E-02 -1105E-01 -1105E-01 -1105E-01 -1105E-01 -1105E-02 -1105E-02 -1105E-03 -1105E-02 -1105E-03 -1105E-03 -1105E-03 -1105E-03 -1105E-02 -1106E-02 -1106E-03 -110 | | 5 | | .51 | 101E-02 | . \$101E- | | 5460E-02 | | | | | | | |
| 2 .306E-C2169E-03 | 2 | | - | | 16 2E-0 2 | -5758E- | | 1092E-01 | | | | | | | |
| 2 13835-02 -11665-03 -11666-01 -1166 | | • | ~ | .72 | 36E-02 | . 3082E- | | 10536-01 | | | | | | | |
| 2 3305E-02 -3328E-03 -3238E-03 -3328E-03 -3328 | 2 | | 2 | .37 | 199E-02 | -1786E- | | 1562E-03 | | | | | | | |
| 2 | 5 | 5 | 2 | .33 | 183E-02 | - 3383E- | | 1669E-03 | | | | | | | |
| 2 3908-02 -33546-03 -33546-02 -33546-02 -33546-03 -33648-02 -33546-03 -33648-02 -33546-03 -33648-02 -33546-03 -33648-02 -33548-02 -33548-03 -33648-02 -33648 | - | 5 | 2 | -62 | 146-62 | .6214E- | | 1140E-01 | | | | | | | |
| 2 20095-02336E-03336E-03336E-03336E-02336E-02336E-02336E-02336E-02336E-02336E-02336E-02336E-02336E-02336E-02336E-02336E-02336E-03336E-02336E-03336 | | - | - | 94. | 382E-C2 | -1998E- | | 3928E-C2 | | | | | | | |
| ### ### ############################## | | , 4 | | 38 | 6 AF -82 | - 2609E - | | 3254E-03 | | | | | | | |
| 4 MATERIAL = 1 2 SIGMAX SIGMAZ TAUXY TAUYZ TAUZX SIGMAL SIGMAL 2 SIGMAX SIGMAZ TAUXY TAUYZ TAUZX SIGMAL 2 SIGMAX SIGMAZ TAUXY TAUXZ TAUXZ TAUZX 2 SIGMAX SIGMAZ TAUXY TAUZX SIGMAL 2 SIGMAZ SIGMAZ TAUXY TAUYZ TAUZX 2 SIGMAZ SIGMAZ TAUXY TAUZX 2 SIGMAZ SIGMAZ TAUXY TAUYZ TAUZX 2 SIGMAZ SIGMAZ TAUXY 2 SIGMAZ SIGMAZ TAUXX 2 SIGMAZ | ١.4 | | | 38 | 164F-02 | 3966E- | | 4342E-02 | | | | | | | |
| Z SIGMAX SIGMAX SIGMAZ TAUXY TAUYZ TAUZX SIGMAL SIGMAL EPSY EPSY CAMMAYZ CAMMAYZ CAMMAXZ GENETAL EPSX EPSY EPSZ CAMMAXZ CAMMAXZ CAMMAXZ GENETAL EPSZ CAMMAXZ CAMMAZZ CAMMAZZ CENETAL SIGMAL SIG | - | | | 99. | 350F-02 | . 398EE- | · market | 30-35066 | | | | | | | |
| Company Comp | ESS | ES FOR | GR ICK | H ELENEA | | MATERIAL = | - | | | | | | | | |
| **236-01*** **566-66*** ************************ | - | | * | | 2 | SIGNAX | SIGNAY | SIGNAZ | TAUXY | TAUYZ | TAUZX | STGMAL | SIGMAE | SIGHA3 | CAHMAMAX |
| .176.01 .946.00 | | ! | | | | E PSA | 101 | 25.25 | - ANDRO | 7.4.4.5 | 2000 | 10.00 | 1000 | | |
| .236+01 .946+08 0156+04 .155+04 .155+04 .155+07 .15 | • | • 16E | | 99+399 | | 136+64 | 111+04 | 11t + 04 | 20+369*- | 1000 | 265-02 | 116-00 | | 135. | 175-1 |
| *176*01 *176*01 *0. *1.55*02 *1.55*02 *1.55*02 *1.55*01 * | 5 | 200 | | 00.00 | | 20-346-1 | 10456 | 1 55 404 | 20110-01 | 416402 | 9AF+02 | 156 - 84 | | 17E+ | 115 |
| .17E+01 .17E+01 016E+04 .16E+04 .16E+04 .16E+04 .29E+02 .66E+02 .56E+02 .15E+04 .15E+04 .16E+04 .16 | 3 | • 636 | 10. | . 345 . 00 | | - 43F-F2 | 135-82 | 745-03 | 36F-02 | .65F-02 | 155-01 | . 59E-02 | -17E-02 | 11E-B1 | . 17E-01 |
| *16E+91 *12E+81 *4. *** *16E+91 *16E+92 *4. *** *16E+91 *16E+92 *4. *** *17E+92 *4. *** *17E+94 *4. | 5 | 175 | +0+ | -17E+01 | | 166+84 | 16E+84 | -, 166+64 | 39E+02 | .64E+02 | .64E+82 | 15E+64 | 15E+84 | 17E+84 | . 94E+82 |
| *16E+91 *12E+91 0. | | | | | | 14E-02 | 13E-02 | 74E-03 | 62E-02 | . 10E-01 | . 10E-01 | . 48E-02 | -18E-02 | 10E-01 | .156-81 |
| *16E+01 *66E+00 *46E+00 *13E+04 *13E+04 *13E+01 *21E+02 *16E+02 *13E+04 *13E+0 | 34 | .126 | | *12E+81 | | 12E+84 | 12E+84 | 11E+04 | 12E+03 | 18E+02 | 20E+02 | 11E . D. | 116+04 | 1 35+84 | . 125. |
| **16E+01 **66E+00 **6E+00 **13E+04 **12E+04 **13E+04 **56E+02 **16E+02 **10E+01 **13E+04 **12E+04 **12 | | | | | | | 23E-02 | .34E-02 | 19E-01 | 20E-62 | 44E-02 | . 73E- C2 | .35E-02 | 12E-B1 | - 382 - |
| *23E+01 99E+00 46E+07 -12E+04 | 35 | • 16E | +01 | .66E+88 | .466+98 | | 12E+04 | 1 3E +0+ | 36E+02 | .45E+02 | .10E+03 | 12E+ C+ | 12E+04 | The + 2 | . 12E • |
| .23E+01 946+00 46E+07 -1IEF04 -1IEF04 -1EF02 .27E-02 .40E+02 .27E-02 .46E-02 . | | | | | | | .21E-02 | 64E-03 | 56E-02 | .71E-02 | .165-01 | . 60E-02 | .30E-02 | 12E-01 | . 186-0 |
| ### ### ############################## | 33 | . 23E | +01 | 94E+00 | .46E+99 | | 12E+04 | 12E +04 | 69E+01 | .17 E+02 | .40F+02 | 12E+04 | 12E+04 | 13E+04 | . 47E + |
| #176+01 #176+01 #466+00 %#126+04 *126+04 *1266+04 *1466+02 *346+02 *346+02 *346+02 *126+04 *126+04 *126+04 *126+04 *126+04 *13 | | | | | | 17E-02 | .186-02 | 66E-03 | 11E-02 | .27E-02 | .64E-02 | . 27E - 02 | .14E-02 | 47E-12 | . 74E- |
| .21E-03 .30E-03 .50E-03 .50E-03 .28E-02 .54E-02 .54E-02 .54E-02 .54E-02 .29E-02 .17E-02 .17E-02 .17E-03 .30E-03 .25E-04 -1.3E-04 -1.3E-04 .1.3E-04 .1.3E-04 .1.3E-04 .1.3E-04 .1.3E-04 .1.3E-04 .3EE-05 .3EE-0 | * | ₹1.E | - | 1176+01 | ******** | • | 1 2E+ 04 | 12E+04 | 106+02 | 346+85 | . 34E+02 | 12E+84 | -156+04 | 1361 | |
| .12E+01 .12E+01 .46E+00 .13F+04 .13F+04 .13F+04 .71E+02 .06F+02 .79F+02 .12E+01 .5FF-02 .41EF+04 .71EF+04 .17EF+04 .12E+01 .12E+01 .5FF-02 .4FF-02 .17E+01 .16F+01 .12E+01 .5FF-02 .41EF+04 .17E+01 .15F+04 .13F+04 .1 | | | | | | | .30E-03 | 66E-03 | 28E-02 | .54E-02 | .54E-02 | . 29E- 0Z | .17E-12 | 17 12 | - 1 |
| . 185-02 -485-03 185-02 185-02 185-02 185-01 . 185-01 . 185-01 . 185-02 | 35 | . 12E | +01 | .12E+01 | ******* | | 13E+04 | 135+04 | 71E+02 | . 88E+02 | 20+36. | 12E+04 | 12E+0+ | 146+04 | . 12E +0 |
| .17E+01 .11E+01 .23E+0013E+0413E+0413E+0442E+02 .39E+02 .59E+0212E+0413E+04 | | | | | | | 68E-03 | 25E - UZ | 11E-01 | .14E-01 | .12E-01 | . 556-02 | -45E-02 | -101-01 | 195-1 |
| | 36 | · 17E | +01 | .11E+01 | | | 13E+B4 | 1 35 + 04 | 425+42 | . 39E+BZ | 2555.786 | . 126.00 | - 135 | | |

| 10235.00 | 00.3 | | | | | | | | | | | And the contract of the particular and an inches | | | | | | | MAE SIGNAS | | 104 14E+B4 | | | | 20-300'- 20-316 | | | | | | 10241 - 1460210 | -136+0415F+04 | |
|--------------|--------------|------------|------------|---|--|--|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|---|--|--|---|---|---|---|--|--|-------------------------|--|---|
| 1023E + 00 | 20.3 | | | | | | | | | | | | | | | | | | M | | | 3 4 | | : | | E-12 | : | 20-39 | \$ E+1 | 96-13 | 1032 | 36+04 | |
| 10235 + 00 | 00.3 | | | | | | | | | | | - | | | | | | | SIGNAE | EP 52 | -1256.04 | 175+84 | .38E-62 | 12E+84 | 7 | .27 | - | * | : | • | | : ; | |
| 1 02 3E + 00 | 200 | | | | | - | | | | | | | | | | | - | | S TC+A1 | EPSI | B6E+03 | -126.64 | . 57E- 02 | 12E +0+ | . 385-02 | . 19E-91 | 91E+03 | . 146-01 | 12E+84 | . 35E-02 | 435-62 | 115+96 | |
| 18235 + 88 | 20.3 | | | | | - | | | | | | - | | | | | | | TAUZX | GAMMAZX | -74E+ 02 | .47E+02 | .75E-02 | .65E+02 | 100 | .97E-03 | | .33E-01 | .39E+82 | .616-02 | 20.216. | 246+02 | |
| 1 023 | | : | | | | 080 | | | | | | and the same of the same of the same of | | | | | | | TAUYZ | SAMMAY2 | . 21E+02 | . 27E+01 | .43E-83 | .14E+02 | 20-277 | .14E-01 | .57 E+02 | .90E-02 | .24E+01 | .38E-03 | ALE-02 | .11E+03 | |
| : | . 19705 • 00 | 1995E+ 80 | -118636+00 | 17335+88 | 19805-00 | | | | | | | - | | | | | | | TAUXY | SAMMAXY | -,14E+02 | 17E-01 | 20E-05 | 22E+82 | 186983 | 26E-01 | 26E+02 | 41E-02 | . 33E+01 | . 52E-03 | 48F-02 | 516+02 | |
| 220 4E- 01 | 28-36/66 | 9745E-82 | 20916-01 | 12886-01 | 547 AF- 62 | 7878-81 | 15306-01 | 96136-02 | 1510E-01 | 11 366-01 | 1810E-01 | 20-3802 | 3244E-02 | 1701E-01 | 780E-02 | 5469E-02 | 1052E-81 | | SIGHAZ | 1563 | 26F-02 | 12E+84 | -445-02 | 125 +04 | -1116+114 | .51E-02 | 136+04 | 146-01 | 12E +0+ | -105-06 | - 16F-03 | 115 + 04 | |
| | | | | | | | | | | | | | | | | | | | SIGNAY | EPSY | 86E+03 | 125+84 | .39E-02 | 12E+04 | 105+04 | .116-01 | 92E+03 | .145-01 | -12E+0+ | . 0 22 - 0 3 | - 566-02 | 146+84 | |
| . 3898E-09 | -36165- | -2767E- | - 3052. | - 20762- | 25055 | . 80095- | 10425- | .1388E- | . 3978E- | -3485 | 1026E- | 10976- | . 2283E- | .7339E- | 4505E- | .7938E- | . 3939E- | ATERIAL . | SIGMAK | EPSX | 195-01 | 136+64 | 48E-02 | -135+64 | 136+04 | 13E-01 | 12E+04 | 956-02 | -175-10 | 1 30.00 | 55E-02 | 135+64 | 775-63 |
| - | 20. | 20. | | 20 | 2 0 | .02 | 20. | 20. | -05 | | 20 | 20 | 0.5 | .02 | 0.5 | 0.5 | 20 | | 2 | | EE+ 01 | 6E+00 | | 6E+00 | 85.00 | | 2E+01 | | 26+01 | 10000 | | | |
| .15196 | - 28 4 49 . | . 9500 | 14116 | 2000 | . 476 36 | . 86226 | .9539E- | -9629. | -39766- | .147 35- | . 915 IE- | . 4497 | . 5320E- | - 9629E- | -4214E- | . 3895E- | .61456 | MENT NO | | | • | * | | | | | • | | • | | | | |
| | | | | | | - | | | | | | | | | | | - | CKH ELE | | | | | | . 995 | .382. | | | | : | | | .345. | |
| - | | ۰. | | • | | • | m | - | m | • | • | | , | • | 5 | | | OR 98.1 | * | | 145+30 | 76+31 | | 16+31 | 72.00 | | 5E+01 | | UE +0. | **** | • | 2E+01 | |
| | | | | | | - | - | 2 | n | 2 | - | - | • | - | - | ~ | - | 388 | | | | | | | 1 | | | | | 1 | | | |
| - | . 3898E-09 | . 3615E-09 | .3618E-09 | . 3618E-099 . 2767E-02 . 7636E-02 | . 3646E 09 . 3616E 09 . 2761E 02 . 7230E 02 | . 3618E-09 . 3618E-09 . 2618E-0 . 2618E-0 . 2618E-0 . 2618E-0 | 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 201500 - 201 | . 55126 - 09 . 276. FC - 02 . 276. FC - 02 . 276. FC - 03 . 277. F | . 0508E-09 . 0508E-09 . 0508E-02 . 0508E-02 . 0508E-03 . 0508E-02 . 0508E-03 . 1002E-08 . 1002E-08 | 20156 - 09 27676 - 02 27676 - 03 27676 - 03 | .0510E-09 .7510E-02 .750E-02 .750E-02 .750E-02 .7505E-02 .7505E-02 .105E-02 .105E-02 .105E-02 .105E-02 | . 1516 - 19 . 7516 - 19 . 7516 - 10 . 1940 - 10 . 194 | . 2512E - 02 . 2767E - 02 . 2767E - 02 . 267E - 02 . 267E - 02 . 397E - 02 . 398E - 02 . 398E - 02 . 398E - 03 . 3 | . 0508E 09 . 0508E 02 . 0508E 02 . 0508E 02 . 0508E 03 . 0508E 03 . 1056E 03 | 20105 - 09 | 2012 - 09 2012 - | 2010E - 02 2010E - 03 2010E - 03 | 2 2515E 09 2 276F 02 2 276F 03 2 276 | 2 2848E 09 - 979E 02 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 2 2846E 09 -82846E 01 2 2876E 02 -8979E 02 2 2876E 02 -8979E 02 2 2876E 02 -89146E 01 2 2876E 09 -89146E 01 2 2876E 09 -89146E 01 2 3979E 02 -8130E 01 2 3979E 02 -8150E 01 2 3979E 02 -8150E 02 2 3979E 03 -850E 02 2 5969E 03 -850E 02 3 5969E 03 -850E 03 3 5669E 03 3 56 | 2 2846 09 - 9795 02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 2845E 09 - 99-3E 01 - 25845E 01 - 25845E 02 - 25845E 01 - 25845E | 2 2845E 09 -979FE 01 -2845E 01 -2845E 02 -2845E 01 -2845E 02 -2845 | 2 2845E 09 - 9979E 01 2 2845E 01 2 2845E 02 2 2845E 01 | 2 22845 02 - 97.95 02 02 02 02 02 02 02 02 02 02 02 02 02 | 2 2845E 09 -979FE 02 2 2845E 01 2 2845E 02 2 285E | 2 22845 02 - 99795 02 - 22845 01 - 22845 01 - 22845 02 - 28845 02 | 2 29475 0 - 99495 0 - 9795 0 - | 2 2845 02 - 9795 01 - 9795 | 1 3 . 6446 02 . 7515 09 | 2 29476 0 - 97466 0 - 2784 | 2 22845 02 -99795 02 -2845 02 |

15-61 1199.00 1199.0 MATERIAL .0 ***66.19 ***** .126+11 .125.11 BRICKH ELEMENT .556.88 .125+11 ****************** £18+44 1116141 . 546+99 104 .125 •41 H-3647 +4.37 E+44 .125 41 .166 +81 .17E+91 **** PEINT 7 7 5 \$

| **** | | .348 | 3429E-02 3661E-02 6244E-02 | .351bE-69 -1099E-12 -1733E-02 | | 9979E-82 3287E-83 3231E-83 | -1970E+00 -1934E+00 -1995E+00 | | | | | | |
|---------------------------------------|-----------|---|---|--|--|--|--|--|---|--|--------------------------------------|--------------------------------------|---|
| n n | , m | . 158 | 3448E-02 34787E-02 4763E-02 4538E-02 3501E-02 | . 2916E-09 -1717E-12 -2545E-02 -9542E-03 -8296E-03 | | -,5014E-02 -,7247E-03 -,5076E-03 -,3997E-02 -,3207E-03 | -19456-00 -19916-00 -20756-06 | | | | | | |
| 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | ******** | 3 1 4 3 4 4 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | -1097E-08-1608-17-17-17-17-17-17-17-17-17-17-17-17-17- | 22225525 | -7208E-02 -5255E-03 -5255E-03 -525E-03 -7261E-03 -776E-02 | | | | | | | |
| POINT | x 10.371. | | 2 | SIGMAK EPSX 13E+04 61E-02 | SIGMAY EPSY -126+04 | SIGHAZ EPS Z 12E+04 25E-02 | CAMMAXY S1E-00 | TAUYZ GAMMAYZ 20E001 32E-03 | 78 UZH 68 HHAZX 925 + 82 15 - 61 | SIGNAT EPS1 -12E-04 | STG19AP EPS2 12E*84 | SIGHA3 EPS3 | ТАUM АК САННАМА - 17E-0 |
| | .236 • 01 | .946.00 | . 46E 00 | - 12E - 04 - 17E - 02 - 17E - 02 | .156-02 .126-04 .186-02 | 126-13 | . 556-01 | 20-21- 27-12- 27-12- 27-12- 27-12- 27-12- 27-12- 27-12- 27-12- 27-12- 27-12- 27- 27- 27- 27- 27- 27- 27- 27- 27- 2 | . 416.02 . 416.02 . 656-02 | . 126 - 00 . 126 - 00 . 126 - 00 | 20-361- 166-02 146-02 | 136.96 | 25. |
| 5. 5. | .206 +01 | | .126.01 | 586-02 536-03 136-04 | -126+84 -826-03 -126+04 | - 12E +04 - 50E -04 - 13E +04 - 53E -03 | .35E+01 .35E+01 .56E-03 .54E+00 | .32E+01 .32E+01 .51E-03 .13E+00 | .54E+82 .55E-82 .57E+02 | -12E+04 -12E+04 -37E-02 | 126-04 126-04 126-04 156-04 | -13E-95 -13E-95 -13E-95 | 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| 5. 59 | .176 -01 | .645.00 | .126+01 | 13E+04 13E+04 13E+04 | 13E+04 .24E-02 12E+04 .29E-02 | 13E+04 53E-03 12E+04 .16E-02 | .92E-03 -34E+02 -53E-02 | . 42E-12 . 34 E-12 | .10E-01 .59E+02 .93E-02 | -, 12E+14 -, 54E-12 -, 12E+14 | -13E-84 -13E-82 -33E-82 | 14E+04 60E-02 14E+94 77E-02 | 221 |

| | 20 T T T T T T T T T T T T T T T T T T T | 365. | | | | | | | | | | | |
|--|--|--------------|----------|------------|-------------|--------------|---------|----------|----------|-------------|---------|----------|----------|
| 2 1775E 02 -1775E 02 -1275E 03 -1291E 00 | # # # # # # # # # # # # # # # # # # # | 38. | 54E-02 | .27675. | | 9745E-02 | 1995 | 00+ | | | | | |
| 2 | 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 81E-02 | -17335- | | 32316-03 | 1931 | 00. | | | | | |
| 2 37215 C C | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | .33 | 20-340 | . 33046- | | 32496-03 | -11959 | + 00 | | | | | |
| 2 13725-02 -5305-02 -5305-00 -23950-00 -23950-00 -23950-02 -23950-00 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23950-02 -23960-02 -23600- | ST | | 215-02 | . \$ 321E- | | 1021E-C1 | 1993 | | | | | | |
| 2 31026-02 -77436-02 -72536-00 -2253 | 7 RESSES 1 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | .47 | 635-02 | .2505E- | | 6878E-02 | 1980 | 00+3 | | | | | |
| 2 3366-02 -3926-02 -3926-03 -203500 2 3360-02 -3926-03 -3926-03 -3926-03 -3926-03 -3960-02 - | 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | .34. | 97E-02 | .17175- | | 73406-03 | 2075 | • • • | | | | | |
| 2 | STRESSES FOR WAS A STRESSE FOR WAS A STRESSES FOR WAS A STRESSE FOR WAS A STRESSES FOR WAS A STRESSE | . 33 | 02E-62 | - 3302E - | | 7423E-03 | 2090 | 00+ | | | | | |
| 2 | ###################################### | 66. | 20-390 | - 35066 - | | 89172-02 | 2033 | 00. | | | | 1 | |
| 2 .2005-02324-033254-033364-033364-033364-023244-023244-023244-023244-023244-023244-023244-023244-023244-023244-023244-023244-023244-023244-023244-033244 | STRESSES FOR PA 13 15 16 16 16 16 16 16 16 16 16 16 16 16 16 | 154. | 925-02 | .1998E- | | 3928E-02 | | | | | | | |
| 2 3366-02 -9056-02 -9 | TTRESSES FOR PROPERTY OF THE P | .36 | 60E-02 | - 36095 - | | 3254E-03 | | | | | | | |
| 2 22835-02 -92845-02 -93846-02 -93846-02 -93846-02 -93846-02 -93846-03 -938 | 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | .396 | 54E-02 | .3966. | | 4342E-02 | | | | | | | |
| 2 15050-025106-02510 | 13 3 4 4 5 5 5 6 4 6 5 5 6 6 6 6 6 6 6 6 6 6 | 799. | 20E-02 | -39806- | | 9905E-82 | | | | | | | |
| 2 3345-029946-029946-039946-029946 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | .535 | 20-102 | . 2283E- | | 8244E-02 | | | | | | | |
| 2 .2526-025986-035986-035986-035986-035986-035986-025986-025986-025986-025986-025986-025986-025955-02595 | 3 5 5 4 5 5 4 5 5 6 4 5 5 6 4 5 5 6 6 5 6 6 6 6 | AF. | 916-62 | -1689E- | | 5354E-03 | | | | | | | |
| 2 .5662-029940-029766-02977 | TRESSES FOR 99 126 4 4 4 5 5 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | . 32 | 346-02 | .32346- | | .5388E-03 | | | | | | | |
| 2 .15705-027316-027316-027316-027316-027316-027316-027316-027316-027316-027316-027316-0273755-0273555-0273555-0273555-0273555-0273555-0273555-0273555-0273556-0273556-0273556-0273556-027356-04 | 7 | .51 | 62E-02 | .5162E- | | 39406-02 | | | | | | | |
| 2 | FRESSES FOR H GINT X 64 : 166+4 65 . 236+9 | 30 | 27F-02 | -16705- | | 3776E-02 | | | | | | | |
| 2 | TRESSES FOR B4 | .36 | 1.3F-02 | -2612E- | | 74166-63 | | | | | | | |
| ## ## ## ## ## ## ## ## ## ## ## ## ## | TRESSES FOR PH CINT X 64 :166+9 65 .23E+9 | .39 | 53F-02 | .39535- | | .5265E-02 | | | | | | | |
| Common C | TRESSES FOR 84 GINT X 64 ,166+8 65 ,23E+8 | 35. | 20-326 | . 40805- | | 83786-82 | | | | | | | - |
| The column The | | RICKH ELEMEN | | HATERIAL = | - | | | | | | | | |
| 156-01 156-00 10 | | | 2 | FOCK | SIGHAY | SIGNAZ | TAUXY | TAUYZ | TAUZX | 5 16441 | SIGNAP | SIGHAS | CAMMAN |
| .25e+01 .94e+00 .46e+00 .12e+04 .12e+04 .12e+04 .12e+02 .47e+02 .14e+01 .69e+02 .12e+04 .12e+0 | | | 165.00 | 135.04 | 1000 | 1000 | 266.00 | 305.40 | | 10000 | ****** | | |
| .23e+01 .94e+00 .46e+01 -12e+04 -12e+04 -13e+04 -69e+01 .17e+02 .41e+02 -12e+04 -13e+04 -13e+04 -13e+06 -13e+06 -12e+06 -13e+06 -13e+0 | | | | 486-62 | 215-02 | 275-02 | 56E-02 | .47E-02 | 146-01 | . 695-02 | 316-12 | 10E-01 | 176- |
| 17E+01 17E+01 46E+00 -17E+02 -16E+02 -16E+02 -14E+02 -15E+04 -12E+04 | | | | 126+04 | 12E+04 | 12E+84 | 698+01 | .17E+02 | .416+02 | 126 . 04 | 12E+04 | 136.04 | . 175.42 |
| .17E+01 .17E+01 .46E+00 .12E+04 .12E+04 .12E+04 .12E+02 .35E-02 .35E-02 .37E-02 .47EE-02 .47E | | | | 17E-02 | .185-02 | 58E-03 | 11E-02 | .27E-02 | -645-02 | . 28E-02 | .14E-02 | 47E-02 | . 756-02 |
| 17E+01 11E+01 11E+016E+0115E+0117E+0217E+0217E+0217E+0217E+0317E+0417E | | | .46E+ 00 | 12E+8+ | 12E+04 | 125+84 | 18E+02 | .366+02 | .34E+82 | *8+321 | 12E+04 | 135+84 | |
| .17E+01 .64E+00 .12E+01 .13E+04 .12E+04 .12E+01 .11E+01 .12E+01 .11E+01 .64E+02 .47E+02 .11E+01 .12E+01 .12E+0 | | | **** | 1 36 + 64 | - 1 36 + 84 | -1496 | | . P4F+89 | 67646 | 126+84 | -12600 | | 111 |
| .17E+01 ,64E+00 .12E+01 -13E+04 .12E+04 -12E+04 .2EH02 .31E+02 .6GE+02 .12E+04 .12E+04 .12E+04 .12E+04 .12E+04 .12E+04 .12E+04 .12E+04 .13E+04 | | | | 89E-03 | 6 8 8 - 0 3 | .125 -02 | 11E-01 | . 12E-01 | .115-01 | . 64E-82 | .47E-02 | 11E-01 | . 186-1 |
| **23E+01 **94E+01 **12E+01 **13E+04 **13E+04 **53E+01 **57E+02 **57E+02 **57E+02 **57E+02 **57E+02 **57E+02 **57E+02 **57E+02 **13E+04 **1 | | | .126+31 | 136+04 | 12E+04 | 12E+04 | 26E+02 | .31E+02 | .60E+02 | 12E+04 | 12E+04 | 16E+ 06 | . 79E+ |
| *236*01 946*01 126*01 *136*04 *136*04 *136*04 *358*01 276*02 165*02 *14*02 *186*04 *136*04 *14*06 *186*01 *14*02 *16*02 *14*02 * | | | | 41E-02 | .15E-02 | . 15E-82 | 41E-02 | 20-3640 | .95E-02 | . 47E-02 | -196-02 | 77E-82 | . 126-8 |
| 176-01 116-01 126-01 126-01 126-04 113 | | | .126+01 | 135+04 | 136+84 | 135+04 | .53E+01 | .27 E+82 | -635+02 | 126+84 | 13E+04 | 14E+04 | -72E |
| 11E+01 11E+01 12E+01 -12E+01 -13E+04 -12E+02 01E+02 01E+02 01E+02 01E+02 01E+02 01E+02 01E+02 01E+04 | | | 195481 | 115-02 | 1 36 + 04 | - 1 75 + 104 | | 20-324 | 595+62 | 136+00 | | 1146.0 | |
| *11E+01 *11E+01 *12E+01 *13E+04 *12E+04 *12E+04 *1E+02 *47E+02 *43E+02 *43E+02 *12E+04 | | | 10.3371 | .468-03 | .545-03 | 5 4E-03 | 22E-02 | . 81E-02 | .81E-82 | . 525-02 | .16E-02 | 63E-82 | 116-1 |
| .17E+01 ,11E+01 ,03E+0013E+0413E+0413E+0439E+02 .59E+02 .51E+0212E+0412E+0414E+04 . | | | .126+31 | 135+64 | 136+84 | 126 +04 | 69E+02 | .47E+82 | · 43E+02 | 12E+ 64 | 12E+84 | 16E+84 | . 105 +1 |
| .17E+61 .11E+61 .63E+0013E+0413E+0413E+0438E+02 .39E+02 .51E+0212E+0412E+0415E+04 | | | | 26E-12 | 19E-02 | .475-62 | 11E-01 | .74E-02 | .68E-02 | . 665-02 | .32E-02 | 94 E- 82 | - 16E - |
| | | | . 836+00 | 135+04 | 1 36 + 84 | 1 3E + 04 | 38E+02 | . 39E+02 | .61E+02 | - 172 + 104 | 12E+04 | -1146+04 | . 75E+ |

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|---------|------------|---------------------------------|-------------|--------------|------------|------------------|-------------|------------|----------------------------|------------|----------|-----------|---------|
| - | 1 5 | . 58 | 5896E-02 | .2674E-09 | | 1288E-81 | 1735 · 00 | E . 11 | | | | | |
| | 5 1 | 34 | 34486-02 | 60-34162. | | 90106. | 18 4 3606 1 | 11. | | | - | - | |
| - | 2 | 14. | 4763E-12 | . 2585E-82 | | 587 8E-U2 | 198CE+80 | 211 | | | | | |
| - | | . 662 | . 66222-02 | . 80098-02 | | 1287E-01 | 20122 . 00 | 2.00 | | | | | |
| | 1 1 | 84. | . 69 1E-12 | . 1085E-09 | | 3282E-02 | 1759E+80 | 6.10 | | | | | |
| • | 1 | .33 | . 33326-02 | .11656-09 | | 21 57 E- 02 | 19ME-11 | | | | | | |
| • | 3 7 | 197. | . 4643E-82 | . 3501E - 12 | | 4823E-82 | 20 57E+ 06 | 11.3 | | | | | |
| - | 1 | 18. | 20-30449 | 20-32601. | | 60116-62 | 10 +36222. | 20.03 | - | | | | - |
| ~ | 1 5 | 124. | .4214E-02 | 4505E-09 | | 77 80E-02 | | | | | | | |
| - | 2 | .38 | 38995-02 | . 79385-03 | | 94896-02 | | | | | | | |
| | | 419. | 6165F-02 | . 3939E-02 | | 1062E-01 | | | | | | | |
| - | 2 | 186. | . 98796-82 | .4150E-02 | | 12705-01 | | | | | | | |
| - | 1 6 | 64. | .4997E-02 | 3217E-09 | | 7319E-02 | | | | | | | |
| - | 8 | . 32 | 32666-82 | 6937E-89 | | 3311E-02 | | | The last owner to the last | | | | - |
| | | 4.86 | . 4.801F-82 | 3210F-02 | | 57636-82 | | | | | | | |
| | | . 538 | 93876-82 | . 7886E-42 | | 484.2E- 32 | | | | | | | |
| | | 17. | 17446-02 | -1 294F-89 | | 26966-82 | | | | | | | |
| . ~ | | | 106.05-02 | 18725-82 | | 7871F-B2 | | | | | | | |
| , , | | 908 | KA975-02 | . K2865-02 | | . 62 A 6 F - N 2 | | | | | | | |
| + | 4-2 | 4. | 20-346.4 | -419614 | | 28-36-64 | - | - | - | | | | - |
| STRESSE | IS FOR SI | STRESSES FOR BRICKH ELEMENT NO. | | 9 MATERIAL = | | | | | | | | | |
| POINT | * | ٠ | 2 | SIGHAX | SIGHAY | SIGMAZ | TAUXY | TAUYZ | TAUZK | STEMBE | STGME | STCHAS | TAUMAX |
| | | | - | EPSK | 1543 | 254 | SAMPAK T | 7 . WHEE S | SAMMAZX | 1544 | 2 | 253 | - |
| 2 | . 156 • 11 | | 156401 | 10221. | 504326 | 135 10 | 204307 | 2047/60 | 504322 | | COC-02 | 205-01 | 382. |
| * | 28E .A. | | 126.01 | - 126+Ph | 126.84 | 175.00 | 336+01 | 20.6 +61 | 445482 | | 126.04 | 136. | |
| | | | | 146-02 | . 825-03 | .185-82 | . 52E-13 | . 38E-83 | .69€-02 | . 41E-02 | . BBE-83 | 36E-02 | .776 |
| 75 | .175 +91 | 1 .646.10 | .126+91 | 136 + 04 | 12E+14 | 12E+04 | 31E+02 | .616+12 | | 116+64 | 126+64 | 166.8 | .136. |
| | | | | 556-02 | .565-02 | . 7 DE -03 | 48E-02 | . SE-12 | | . 87E-C2 | .33E-02 | 11E- 01 | - 302 - |
| 2 | . 126 +91 | 1 . Sat +00 | . 126.01 | 13E+84 | | 112 · Dt | 916.02 | 284 324 | 1 | tie+04 | -13C+D4 | *. 19E+84 | . 186 9 |
| - | | | | 33E-02 | 12E-01 | . 1 1E - 0 1 | 80E-02 | .146-01 | 17E-02 | . 13E-61 | 24E-02 | 15E-B1 | . 28E- |
| 11 | . 21E+01 | • | . 196+11 | 146+14 | 98E+#3 | -, 11E + | 585+02 | . 395+81 | .1 35+13 | 976.53 | 105+04 | 146. | . 236 |
| - | - | | | 21E-01 | .11E-01 | . 365-92 | 92E-02 | . 61E-03 | 10-302· | 11-221 | 29-369 | 11-36-11 | . 37E- |
| • | . 235 +91 | : | . 196+31 | 13E+0+ | 125+04 | -112E+84 | . 84E+01 | 126 +01 | 7E+82 | -126.94 | -1260 | -136. | |
| - | - | | | 86-03 | . 86E - 03 | . 325 -03 | .13E-02 | -191-03 | .74E-02 | . 38E-12 | | 3/E-BZ | - 136- |
| 2 | . IX | | .19611 | 13E+64 | 696-03 | 355-12 | 98F-92 | 20-305 | .57F-02 | 20-385 | -13640 | 786-82 | 126 |
| | 195 +01 | 1 .336+00 | .196+31 | 145+64 | 155+84 | 135 + 96 | .245+02 | 236+82 | .205+02 | 1 35 + 0 4 | • | 15 6 + 84 | .976 |
| | | | | 16E-02 | 796-02 | · 60E-02 | . 30E-02 | 376-02 | .32E-02 | . 65E-12 | 12E-82 | 88E- 82 | . 15E- |
| | . 19E +01 | 1 .326+00 | .166.01 | 13E+06 | 12E+84 | 12E+14 | 52E+02 | .526+02 | .675+82 | 126 . 04 | 12E+84 | 1 VE . B. | . 96 · |
| | | | | 30E-C2 | .126-02 | .185-02 | 82E-02 | .82E-02 | .11E-01 | . 596-02 | .35E-02 | SE-12 | - 19E - |
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| FEFF THE BUSINESS TO SEE THE TO THE TENT THE TEN | 410000000000000000000000000000000000000 | TANUXY GAMMAX TANUXY GAMMAX TANUXY GAMMAX TANUXY TANUXY | TAUXY TAUXY AMMAXY AMMAXY | TAUXY TAUYZ TAUZZ | |
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|--|----------|-------------|------------|-----------|------------|-------------|--------------|-----------|-------------|----------|----------|----------|-----------|---|
| | | • | .34. | 4 6F-62 | -2910E- | | 5014E-02 | 1945 | | | | | | |
| 19115/16-0190/200190/200115/16-0115/16-0115/16-0115/16-0115/16-0115/16-0115/16-0115/16-0115/16-0115/16-0115/16-0 - | | • | 30 | 20-332 | 1167E- | | 7247E- 03 | 3000 | | | | | | |
| 11 | • | | *2* | 87E-02 | -1717E- | | 1340E-03 | 20401 | | | | | | |
| 2 | n | • | • | 20-05 | -25052- | | 21576-82 | -1971 | | | | | | |
| | , | | | 846-02 | 17446-1 | | 11586-82 | 1914 | | | | | | |
| 13,756.0 2,26977*********************************** | | | 36 | 246-02 | .1830E-L | | 1171E-02 | 2078E | | | | | | |
| 972612-02 - | | | 98. | 435-02 | . 35016. | | 20-35284 | .2897 | 00. | | - | | | |
| 1377512-02 14-5957-02 1575512-02 1575512-02 1575512-02 1575512-02 1675512-02 1775512-02 1875512-02 1875512-02 1975512-03 19 | , , | • | . 32 | 20-356 | \$367E- | | 2822E-82 | | | | | | | |
| 123506-0235111-023506-0333111-023506-0333111-023506-0333111-023506-0333111-023506-0333111-023506-033506- | | • | .32 | 96E-02 | - 80 . 7E- | | 72516-03 | | | | | | | |
| | | | .39 | 127E-02 | .167CE- | | 3776E-02 | | | | | | | |
| 129509-039 | , m | | .38 | 95E-02 | . 7938E- | | 54696-02 | | | | | | | |
| 223552E-03 1552E-02 1552E-02 1552E-02 1552E-02 1552E-02 1552E-02 1552E-02 1552E-02 1552E-02 1552E-02 1552E-03 1 | | 9 | .32 | 66E-02 | 4937E- | | 3311E-02 | | | | | | - | |
| 2 | | | .30 | 28-344 | -8543E- | | 9382E-03 | | - | | | | | |
| 510 - 1652 - 2 - 2506 | | | .35 | 62E-02 | -17786- | | 95096-03 | | | | | | | |
| 1162E-02 1653E-02 1653E-03 165 | | 9 | | 1016-02 | . 3210E - | | 57536-02 | | | | | | | |
| 131566-02 5160AY SIGNAY TAUYY TAUYX TAUYX SIGNAL SIGNA | | 1 | .32 | 20-329 | -12051- | | 165 3E-02 | | | | | | | |
| SIGNAT SIGNAZ TAUYY TAUYY TAUZY SIGNAL SIGNAZ SIGNAZ | | | . 32 | \$ 0E-12 | . 8496E- | | 1162E-02 | | | | | | | |
| SIGNAY SIGNAZ TAUXY TAUYZ FAUZK SIGNAL SIGNAL SIGNAZ SIGNA | | 1 | .39 | 197E-02 | . 219 3E- | | 2588E-82 | | | | | | | |
| SIGNAY SIGNAZ TANYY TANYZ FAMMAZZ EPSI EPSI EPSI EPSI EPSI EPSI EPSI EPSI | - | - | | 20-30 | . 107 25 | 21 | 24-31262 | | | | | | | |
| FPSI | STRESSES | FOR BRI | CKH ELEMEN | IT MC. 11 | MATERIAL = | - | | | | | | | | |
| Control Cont | PCINT | * | ٠ | 2 | SIGHAX | SIGHAY | SIGHAZ | TAUXY | TAUT | TAUEX | SIGHAL | STGME | SIGNAS | - |
| 286-01 0125-01 -125-03 -125-04 -125 | | | | | EPSX | EPST | 2503 | CAMMARY | SAMMA 5 | SAMMAZ X | 121 | 7 | 2 | |
| 236 01 0, 125 01 -135 04 -125 04 135 04 155 04 155 04 155 04 -125 04 -125 04 -125 04 155 04 1 | | 100 302 | | .126+01 | 12E+04 | 125.04 | \$0 + 32 I · | 189566 | . 57E • 0 3 | 936-02 | . 126 | 79E-13 | 486-82 | |
| .23e-01 .94e-00 .12e-01 .13e-04 .13e-04 .27e-03 .65e-04 .21e-04 .90e-02 .37e-02 .13e-04 .21e-04 .23e-04 .23e-0 | | | | ****** | | 196496 | - 1 TE + B4 | 346.00 | 135 +00 | . 57E+02 | 125+04 | 126+04 | 1 36 . 64 | • |
| .23e-01 .94e-00 .12e-01 .13e-04 .13e-04 .13e-04 .36e-01 .75e-02 .16e-02 .12e-04 .13e-04 .13e-0 | | 104 242 . | | 102271 | 11E-02 | .15E-02 | 575-03 | . 65E-04 | . 21E-84 | .90E-02 | . 37E-02 | .15E-12 | 546-12 | • |
| | | 236+01 | 946.00 | .12E+01 | 136+04 | 1 36 . 04 | 1 3E + 04 | .585+01 | .276.02 | .64E+02 | 126 + 11 | 136+04 | -116 | |
| .1Fe-01 .04Fe-00 .12Fe-01 .12Fe-04 .12Fe-04 .04Fe-01 .13Fe-01 .55Fe-02 .18Fe-02 .32Fe-02 .32Fe-02 .32Fe-03 .32F | | | | | 12E-02 | .24E-02 | 58E-03 | . 925-03 | .42E-12 | .105-01 | . 53E-02 | 136-82 | 70-10 | - |
| 23E-01 0. 19E-01 -12E-04 -12E-04 -12E-04 -12E-01 113E-01 1460-02 -12E-04 -12E- | * | 1172-011 | 30+3+6. | 1156.01 | 136.04 | 125 +04 | | 204246 | 200200 | 20.299 | 616-02 | 325-12 | 45 E- 82 | |
| 246-44 6 | , | - | | 10000 | 1.385-02 | 1 26 4 06 | 100 376 | . 86 6+81 | -136+11 | .465+02 | 125.00 | 126.84 | 1 36 . 04 | |
| 246-41 6. 196-51 -126-94 -126-94 -126-94 -646-91 -416-44 -126-94 -126- | ç | . 2 3E + 01 | ; | 10.361. | 20-386 | A 5 5 - 8 3 | 345-13 | 136-02 | 28E-13 | .73E-02 | . 38E-02 | . 09E-03 | 37 E-B2 | • |
| . 30E-02 .16E-02 .40E-03 .10E-04 .55E-02 .10E-04 .55E-02 .10E-04 .55E-02 .10E-04 .15E-04 .15E- | | 345481 | | 106601 | 126+84 | 126+84 | 12E+04 | . 64E+80 | .646-01 | .41E+02 | 12E+84 | 12E+84 | 13E+B | • |
| .296-01 .946-00 .196-01136-04136-04499-01 .178-02 .426-02 .136-04386-04496-01 .196-01 . | | **** | | - | 30E-02 | .15E-02 | 60E -03 | .106-03 | . 10E-04 | 21-359. | . 17E-02 | .16E-82 | 53E-12 | |
| .19E-01 .45E-01 .19E-02 .19E-02 .19E-03 .77E-03 .28E-02 .46E-02 .19E-04 .13E-04 .13E-0 | | 10000 | . 46.500 | .196 +01 | 132+04 | 135+04 | 136.15 | 10.364 | .172.02 | . 425+12 | *. 13E+# | 1 36.00 | Ibert | • |
| *19E+01 .65E+00 *19E+01 -*13E+04 -*13E+04 -66E602 .33E+02 .35E+02 -12E+04 -13EE00 -39E-02 -13EE004 -23EE-03 -3EE-01 .3EE-01 .5EE-02 .39E-02 .39E-03 .35E-04 .13E+04 .13E+04 .13E+04 .13E+04 .13E+04 .13E+04 .13E+04 .13E+04 .13E+04 .13E+05 .39E-02 .3EE-02 .3EE-04 .3 | | | | | 18E-02 | .196-02 | 60E-03 | 77E-03 | .28E-12 | .66E-02 | 295-02 | .13E-02 | 406-02 | • |
| -285-91 .458-00 .168-01 -138-04 -138-04 -138-04 .118-01 .118-02 .588-02 .188-04 -138-0 | | 196+91 | . 656+06 | . 19E+ 01 | 13E+84 | 1 3E + B+ | 1 3E + 04 | 64E+12 | . 336+02 | .36E+12 | 12E+04 | 13E+04 | 1 06 . 00 | • |
| .22E+01 .42E+00 .16E+0113E+0412E+0413E+0461E+01 .11E+02 .96E+0212E+0412E+04 | | | | | 27E-02 | .185-03 | .35E-12 | 10E-01 | . 52E-12 | .57E-12 | 20-364 | 29-365 | 785-62 | : |
| | * | . 22E +01 | . 4 2E +00 | | 136+04 | 12E+04 | -135+04 | 61E+01 | .11E+02 | .58E+12 | 1ZE . u. | 12E+ | 1 3E . D. | : |

| ***** | , pr. m m m m | 14. | | | | | | | | | | |
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| | | | 476 3E-02 | . 25055-02 | | 5878E-02 | 19805 - 06 | 90+3 | | | | |
| | | | 20-1695 | 17175-62 | | 734CE-13 | 20 79. | : | | | | |
| | w m m w i | 166. | 330 CE-02 | . 3302E-C2 | | 7423E-C3 | 20 9CE + CO | 000 | | | | |
| | mm m i | 199 | . 5506E-02 | . 5506E-02 | | 8917E-02 | 20335 + 00 | 00+3 | | | | |
| ~ ~ | P 10 | . 464 | . 46436-02 | .3501E-02 | | 4023E-02 | 2057E+00 | 00+3 | | | | |
| • | 2 | .362 | .3624E-02 | .1930E-02 | | 1171E-02 | 2078E+00 | 00 - 3 | | | | |
| • | | .35 | 3521E-02 | . 35216-62 | | 1184E-02 | 20 £ 8 £ + 00 | 00+3 | | | | |
| , | 1 | 96. | 5630E-82 | . 98382-02 | | 931 36-02 | 21272.00 | | | | | |
| | 3 | .392 | .39276-02 | .16705-02 | | 3776E-02 | | | | | | |
| • | | .361 | . 361 3E-02 | . 26125-02 | | 7616E-83 | | | | | | |
| | 5 5 | . 39 | . 395 3E - 82 | . 3953E-62 | | 5265E-02 | | | | | | |
| • | | 955 | 20-32655 | . 408CE-02 | | 837 8E- C2 | | | | | | |
| • | 3 6 | 184. | . 4601E-02 | .3210E-02 | | 5763E-02 | | | | | | |
| * | 9 6 | .356 | .356 EE-02 | .17705-02 | | 95096-03 | | | | | | |
| 8 | 2 6 | .342 | .3425E-02 | .3425E-02 | | 9626E-63 | | | | | | |
| | 9 5 | .663 | 6037E-02 | . 6837E-02 | | 7824F-P2 | | | | | | |
| | 3 7 | .399 | 39976-02 | . 2193E-02 | | 2588E-02 | | | | | | |
| 2 | | .362 | 38255-02 | . 2792E-02 | | 1191E-02 | | | | | | |
| | 2 2 | . 429 | . 4 29 0E - 0 2 | .4290E-02 | | 3401E-02 | | | | | | |
| | | . 546 | 24-36-45 | . 50105-02 | | -19195E-E2 | | | - | | | - |
| 2014 | E 20 C 20 | SINESSES FOR SKICKN ELEMENT NO. 12 TATERIAL S | | TATERIAL : | | | | | | | | |
| POINT | * | | 2 | SIGMAX | SIGMAY | SIGNAZ | TAUXY | TAUYZ | TAUZX | SIGHBI | SIGNAP | SIGNAS |
| 1 86 | . 17E+91 | •6+€+9 | .125+91 | 13€+84 | 125+04 | - 125 +84 | 265+82 | . 365+69 | . 685+82 | 15.21 | 26.2 | EP 53 |
| | | | | 41E-02 | .15E-02 | . 885-03 | 41E-02 | .56E-02 | .115-01 | . 49E-02 | 196-02 | |
| 101 | . 235 +91 | 94 6+00 | .12E+01 | 1 36 +64 | 13E+84 | 136+84 | . 53E+81 | .27E+82 | .636+82 | 125 - 94 | 13E+84 | 146.00 |
| 102 | 175 451 | 178401 | 1126431 | 115-62 | 20-342 · | 585-83 | . 84E-03 | -42E-02 | .106-01 | .536-12 | -146-02 | 60 E-12 |
| | | | | .466-83 | . 54E-03 | - 59F - B3 | 226-02 | .A1F-02 | . A 15-82 | 136 + 14 | 135+04 | 146 - 0 |
| 103 | . 115 +01 | .116 - 91 | .126+91 | 136+64 | 136+04 | 126+84 | 30+369*- | ***** | ***** | 125 + 94 | 125*** | 146+ |
| 101 | | | | 205-02 | 18E-02 | - 405-82 | 11E-01 | .725-02 | .67E-12 | . 58E-02 | .32E-02 | 94E-12 |
| | 13610 | | .195.01 | 335-02 | 1 3E+04 | 1 3E +04 | 47E+02 | . 51E+82 | .36E+02 | 126 + 04 | 136+04 | 14E+ 04 |
| 105 | . 23€+01 | 94€+00 | .196+01 | 13E+04 | 1 36+04 | 136+04 | 556+01 | .106+02 | . 42E+82 | 136+06 | 136+06 | 1000 |
| | - | | | 18E-02 | .196-02 | 606-03 | 67E-03 | . 28E-02 | .66E-82 | . 295-82 | -14E-82 | 485-82 |
| 1 | 176+01 | 11 76+01 | 196+961 | -+136+84 | -136+04 | | -+22E+42 | -30E+02 | .30E+02 | 136+64 | 136+04 | 146+0 |
| | | | 1 | *3-3*6 ·- | 11E-04 | 60E-03 | 35E-02 | .47E-02 | .47E-02 | . 225-02 | .17E-02 | 46E-12 |
| 101 | · 12E +01 | .12E+01 | .196+31 | 146+04 | 1 4E + 04 | 1 3E +04 | 41E+ 02 | .22E+82 | . 20E+02 | 1X+06 | 136+84 | 14E+ 84 |
| | 175.401 | | ****** | 316-62 | 27E-02 | .62E-02 | 65E-02 | .356-12 | .31E-02 | . 66E-02 | .38E-03 | 66E-82 |
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| SIGNAX | u. | EPSY EPSZ | TAUXY | TAUTZ | TAUZK | | 23.00 | EP 53 |
| 14E+D4 | | 986 +03 116 +04 116 -01 . 416 -02 | 98E+02 | .616-03 | 28-346- | . 11E-91 | .11fest | 10° ** |
| 13E+04 | • | | .045.01 | 126+01 | .426.82 | | 126+64 | 136.8 |
| 26E-03 | , | 136+84 136+84 | 626+02 | 19E-03 | .28E+82 | - 126-06 | -136-6 | 700 |
| 27E-02 | | | 96E-02 | .376-02 | .446-82 | | .34E-12 | 716-02 |
| 146+84 | | -198v84 -138v84 | 284242 | -716-04 | 266-82 | . 196-00 | 136-82 | |
| 16 5 + 84 | | • | 536+02 | B. E- B1 | 136+02 | | 12E+84 | 106.04 |
| 17E-01 | | | 84E-02 | 136-04 | 206-02 | | .096-13 | 10E-01 |
| 13E+84 | ' | • | .57E+11 | .77E+01 | 206 - 61 | | 1 36 . 0 . | 136.8 |
| 45E-62 | | | .91E-03 | .126-03 | 32E-03 | | -216-02 | 45E-02 |
| 146 +04 | | • | 966+82 | . 996 . | | Ē, | . 136 | |
| 21E-02 | | | 89E-02 | 92E-03 | 426-03 | | .30E-02 | 59E-12 |
| 1. | | • | .416+82 | . 895 + 61 | 196 • 11 | | -10E. | 196 . 04 |
| 25E | | | . 64E-02 | .14E-02 | 316-03 | | 126-02 | -116-61 |
| 13 | 138+641 | -135+64125-65 | 745+82 | .946+01 | 116.12 | . 166. | 146-02 | |

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| | | | | | | | | | | | | | | | | | | | | | SIGNAS | 196+ | 636-82 | 71E-02 | 16E+04 | 195+0 | 67E-02 | 15E+ B4 | 16E+04 | 61E-02 | - 145 | 60E-82 | . 6 76 - 6 2 |
| | | | | | | | | | | | | | | | | | | | | | SIGNAP | 10 6+84 | 126-02 | .97E-03 | 136+84 | -1106.00 | 33E-02 | 165-6 | 136+04 | .12E-03 | 10E+04 | 13E-02 | 23F-12 |
| | | | | | | | | | | | | | | | | | | | | | SIGHAL | 196+04 | - 116+84 | 356-02 | 1 3E + 04 | 136+64 | . 785-02 | 13E+04 | 136+84 | 20-344. | 135+04 | . 53E-02 | . KIE-82 |
| | | | | | | | | | | | | | | | | | | | | | TAUZX | .215+02 | .33E-02 | .44F-02 | .105+02 | .615 +00 | .96E-04 | . 22E+01 | 136+01 | 21E-03 | 616+01 | 975-03 | 175-02 |
| | 00.5 | 60.5 | 00 + 3 | 90+3 | 05+3 | E+00 | 00+3 | 00.3 | | | | | | | | | | | | | TAUYZ | 646+91 | 10 E-82 | .37 E-02 | .20E+02 | 30 E+81 | 60E-03 | . 53E+01 | 77E+01 | 12E-02 | 70€+01 | 1115-02 | .67F-03 |
| 1 | 222255+00 | 20975 + 00 | 2127: + 00 | 21685+06 | 21995+60 | 2097E+00 | 21425+00 | 22512900 | | | | | | | | | | | | | TAUXY | .27E+92 | 456+02 | 71E-02 | 46E+02 | .215+02 | .33E-02 | . 52F-82 | 39E+02 | 62E-02 | 295+02 | .266+82 | .41E-02 |
| | 60116-52 | 40236-02 | 53136-02 | 7815E-02 | 3.70E-02 | 2570E-02 | 3410E-C2 | \$6208-02 | 5286E-02 | -,50956-02 | 6865E-02 | 7336E-02 | 3416F- 02 | 4467E-02 | 6114E-02 | 2960F-02 | 3170E-02 | 3840E-02 | 4 3506-02 | | SIGHAZ | 136+04 | -136+84 | .275-02 | 135+04 | 1 35 +84 | .78E-02 | . 46E-02 | 136+84 | .43E-02 | 13E+04 | -135+84 | . 60F-02 |
| | | | | | | | | | | | | | | | | | | | | | SIGHAY | 146+84 | 135+84 | 206-02 | 14E+04 | 146+04 | 465-02 | 38E-02 | 14E+84 | 32E-02 | 145+04 | 146+04 | 40E-02 |
| , | .70925-02 | . 39016-02 | .5638E-02 | .8346E-02 | .7193E-02 | .4055E-02 | .53275-02 | .76815-02 | . 52582-02 | .5010E-02 | .7231E-02 | 7 2206-02 | 387EE-62 | . 5805E-02 | . 6009E-02 | . 5755E-02 | . 55776-62 | .7039E-02 | . 67186-02 | STRESSES FOR PRICKH ELEMENT NO. 14 MATERIAL = | SIGHAK | 156+84 | 136+64 | 33E-C2 | 14E+04 | 15E+t4 | 36-62 | 456-02 | * 14E+04 | 27 E-62 | 146+84 | 146+54 | 45E-C2 |
| | .4776E-62 | 46435-02 | 56386-02 | 934EE-02 | 4218F-02 | 4106E-02 | .5927E-02 | 76816-02 | 5097E-12 | 5425E-02 | 7231E-02 | 164.25-02 | 44336-02 | 5865E-02 | 900 SE-02 | .442 3F-02 | 5184E-82 | .7039E-02 | 36- 26-02 | NO. 14 | 2 | 196+91 | .196+01 | | . 19E+ 01 | .196+01 | 245401 | , | .24E+01 % | | . 245+91 | .245+91 | |
| 5 | 74. | . 40 | .56. | .63 | 124. | .41 | 66. | 2. | .50 | .54 | .72 | 29. | | . 58 | | 14. | .51 | .70 | . 56. | KH ELEMENT | ٠ | .33€+86 | .65 € +0 C | | .126+01 | .575+66 | 3 26 4 90 | | .616+96 | | .116+01 | .676+60 | |
| ¥ | | | 1 | 1 | 6 | • | 6 | • | | | | | | • | • | 6 | • | 6 | | 36 36 10 | * | .15€+91 | .196 +01 | | 104 321 . | .675 +60 | 156 401 | **** | . 196+91 | | .116+91 | .67E+98 | |
| - | m | • | • | | - | m | in | • | m | | | | · m | 8 | 5 | m | • | u, | • | ES F | | | .1 | | - | | - | • | = | • | | .6 | |
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| | 1 7 | .33 | 3332E-02 | .1165E-09 | | 2157E-02 | 19715 - 00 | 15.00 | | | | | |
| 5 | - | .30 | 30895-02 | 12445-12 | | .115 8E-02 | 1914E+ BB | 90+31 | | | - | | |
| w 1 | | 95. | 36245-02 | . 1830E-02 | | 1171E-C2 | 20 7.8 E + 88 | 95 + 86 | | | | | |
| n | | | 404 35-02 | . 35015-02 | | 20-36-05 | 00 - 3/602*- | 80. | | | | | |
| m | 1 9 | .27 | 27056-02 | .6423E-10 | | 18 40E-02 | 2040E+00 | 0E+00 | | | | | |
| • | 1 | 192. | .244EE-02 | 1283E-12 | | 19306-02 | 20 99E + 00 | SE + 00 | | | | | |
| | 6 | .314 | 31405-02 | .1654E-02 | | 1530E-02 | 2147E+00 | 7E+00 | | | | | |
| 5 | | 114. | - 410 BE-12 | - \$098E-02 | - | 20-30162. | 2897E+ 80 | 20.34 | - | | - | | |
| | 1 7 | .326 | .3262E-02 | 1205E-09 | | 1653E-02 | | | | | | | |
| • | 2 | .324 | . 324 BE-02 | . 8496 - 63 | | 1162E-02 | | | | | | | |
| , | 3 7 | .394 | 39976-02 | .21935-02 | | 2588E-02 | | | | | | | |
| m | 2 2 | .396 | 39606-02 | .10725-02 | | 2821E- 02 | | | | | | | |
| ~ | 1 . | .319 | . 315 1E-02 | 1804E-09 | | 2163E-02 | | | | | | | |
| • | 1 | 62. | 20-34 162 | .6 3246-12 | - | 13436-02 | | | | | | | |
| • | 3 | .352 | .35296-02 | .1805E-02 | 1,50 | 1351E-02 | | | | | | | |
| • | 3 | *** | .44336-82 | . 3870E-02 | | 3410E-D2 | | | | | | | |
| | 1 3 | . 253 | . 2533E-G2 | 7888E-10 | | 1680E-02 | | | | | | | |
| • | 6 2 | .266 | 266 1E-02 | .7509E-03 | | 1530E-02 | | | | | | | |
| , | 6 | .344 | 344 66-02 | .2297E-02 | | 1990E-02 | | | | | | | |
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| | | | | FPSX | FPSY | 5 PC 7 | CAMMAXY | SAMMAY7 | CAMMAZ | 184915 | SIGNE | SIGHAS | |
| 121 | .235 +01 | 0. | .196+01 | 125+04 | 125.04 | 1 35 +04 | . BAEPOI | 136+01 | 280319. | | -175.00 | 13F + BA | |
| | | | | 25E-03 | .86E-03 | 736-83 | .13E-82 | 20E-03 | .65E-02 | . 29E-02 | .63E-03 | 30E-02 | |
| 128 | . 245 +01 | : | . 19E+ 01 | 12E+04 | 12E+04 | 12E+04 | .64E+00 | .64E-01 | .426+12 | 12E+84 | 126+64 | 13E · B | . 152 |
| | | | | 30E-12 | . 16E-02 | 79E-03 | . 10E-13 | . 10E-04 | .66E-82 | · 16E-02 | -16E-02 | SAE-12 | |
| 159 | .23E+61 | .946+00 | . 19E+01 | 136+64 | 1 3E+04 | 1×+94 | 49Ev91 | .18E+02 | .4 25 + 12 | • | 1 3E+84 | 146 . 14 | 3 |
| - | | | - | 18E-02 | .195-02 | 77E-03 | 17E-13 | .28E-02 | .67E-12 | | .13E-02 | 49E-02 | .78E |
| 130 | . 196 +01 | . 655.00 | .195.01 | . 136.04 | 136 + 04 | -135 +04 | 204349- | 20.362. | 204302 | - 19E+B4 | | 145.00 | |
| | ***** | | 31.54.04 | | .185-03 | 20-3/2· | 716-01 | .37E-02 | 24-344 | - 40E-02 | . 356-02 | 746-82 | . 116 |
| 131 | • 6 36 + 01 | : | 104347 | 135 -04 | -135+04 | 1 35 +04 | | | ZBE+81 | - 136 - 1 | 136+14 | 136.8 | . 322 |
| | 345.00 | | 34540 | 28E-02 | . 21E-02 | . 21E -02 | .11E-02 | .12E-03 | 326-03 | 20-322· | .21E-02 | 296-12 | . 51E |
| 132 | . 24E +01 | : | 10+347 | 136+04 | -136 | 135 +04 | .11E+01 | .235-11 | 64E+ 11 | 136+04 | 1 3E+ 04 | 136 + 84 | 7 |
| - | | | 1 | 59E-C3 | .146-02 | 81E-03 | .17E-03 | .36E-05 | 10E-02 | 146-02 | 19E-03 | 12E-02 | . 2 |
| 133 | .232+01 | .942+80 | 10 .342. | - 145+04 | -135+84 | 145+04 | -, 665+11 | | 4 25 4 81 | 135064 | 14E+04 | 145+84 | |
| | | | | 14E-02 | .146-02 | 77E-03 | 10E-02 | 25E-03 | 67E-03 | . 156-02 | 64E-83 | 176-62 | . 32E |
| 136 | .186+01 | .61E+00 | .245+01 | 146+04 | 135+04 | 135 + 04 | -, 64E+82 | .116-01 | 10E • 01 | 135+04 | 13E+04 | 145.04 | 7. |
| *** | 235.01 | . 16.00 | 335404 | 24E-02 | 185-02 | .455-02 | 105-01 | .17 E-15 | 166-03 | . 45E-02 | .29E-02 | 71E-02 | 7 |
| 132 | . 636 +01 | ** 35 - 00 | 10.2220 | . 135.00 | 1000 | 100 | -, 195+12 | . 696+01 | 255E+12 | 13E+C4 | -136+04 | 13E+B4 | |
| | | | | COE- UC | 191-16 | - 276. | 20-362- | 7135-07 | 20-195 | . 7 VF - 117 | . 1 TF-87 | | |

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6-AHHA 2 16442 6 6957 1 15646 1 276 60 1 276 60 1 266 0 MATERIAL 20 3 2 4 5 6 6 6 7 7 8 6 6 6 6 7 8 6 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 6 7 8 6 6 7 8 6 6 7 8 6 6 7 8 6 6 7 8 6 7 .19€+31 BRICKH ELEMENT NO. .246+01 . 24E+ 31 .24E+91 . 22E+01 .195+01 ELEMENT .61E+00 . 34E+80 .94E+60 .11E+01 *55E+88 .176+01 412E+61 1116+01 FOR .126+91 .176+01 .196+91 .23€ +91 . 18E+01 . 23E +01 . 17E+91 . 11E+01 POINT 3 3 3 137 136 135 140 3 136

DISPLACEMENTS FOR BRICK ELEMENT NO. 17 MATERIAL = 2

| | 176IE-12 | .1721E-02 | .18015-02 | 1099E-12 | .16485-02 | | 36716-02 .2151E-123873E-13 | .3719E-02 .8257E-034204E-13 | .3859E-02 .1761E-024474E-13 | .374.9E-02 .8701E-03861.9E-21 | .3613E-02 .5069E-121646E-03 | .69236-12 | .16995-02 | .1780E-02 | .34136-02 .20356-1228836-03 | . 79265-63 | .1690E-02 | . 3901E-02 . 8296E-03 3207E-03 | Y SIGHAX SIGHAY SI | FPSX EPSY | 504367 | | .16E-02 | . 39E+05 | 196-03 .136-02 | .ureves | 14E-C3 .14E-02 | ************************************** | 105 02 | 375-03 .156-02 | .385 +09 | 13E-03 .12E-02 | | 17E-03 .13E-02 | · . 48E+85 | 111111111111111111111111111111111111111 |
|-----------|----------|-----------|-----------|----------|-----------|---------|----------------------------|-----------------------------|-----------------------------|-------------------------------|-----------------------------|-----------|-----------|-----------|-----------------------------|------------|-----------|--------------------------------|--------------------|---------------|-----------|------------------------|---------|----------|----------------|---------|----------------|--|--------|----------------|---------------|----------------|---------------|----------------|-----------------|---|
| 13-305-11 | | | _ | | E-03 0. | E-03 0. | E-13 | E-13 | E-13 | 12-21 | E-13 | E-03 | E-03 | E-03 | E-03 | 5-63 | E-03 | E-13 | SIGNAZ TAUXY | ٠ | | - 1 35 - 83 .5 35 - 84 | | | | | • | 68E + 04 . 67E + 03 | | | • | _ | 68E+84 17E+85 | 66E-0315E-02 | 38E+84 96E+84 | |
| | | | | | | | | | | | | | | | | | | | TAUYZ TAUZX | | | 785-04 - 675-04 | | | 32E-0492E-04 | | | .902-02132-04 | | | 52E+03 87E+03 | | | • | .12E+03 .13E+03 | |
| | | | | | | | | | | | | | | | | | | | STONAL | | 50.364 50 | | • • | | • | ľ | | 04 . 46E+05 | • • | | 83 . 436 + 85 | • | • | • | • | |
| | | | | | | | | | | | | | | | | | | | SIGME | 2843 | -1966.84 | | 456-03 | 166.04 | 47E-03 | 16E+B4 | 465-03 | 272- | 736+03 | 36E-03 | 98E+03 | 4 BE-6 3 | 25E+11 | 47E-83 | 64E+83 | |
| | | | | | | | | | | | | - | | | | | | - | SIGNAS | EPS3 GAMMANAX | 885.84 | | 546-03 | 436.0 | 59E-13 | 842.84 | 75 E-13 | 10.227 | | 6 0E - 03 | 6 32 + 04 | 6 35-83 | 78E+14 | 67E-13 | 30E+04 | |

...... 33466-03 22956-18 MATERIAL MATERIAL = BRICK ELEMENT NO. . 34666 - 0.2 34946 ELEMENT .96E+00 *196+91 .946+00 .968+60 .94€+86 .186+61 17E+01 .17E+01 .23E+01 . 23E+91 .23€+61 . 23E+01 .186+01 POINT 155 156 151 158 159

| | × | • | | | | | | | | | | | |
|--------|-----------|--|------------|---------------|-----------|-------------|-------------------------------------|---------------------|-----------|------------|----------|----------|------------|
| | | .34. | 34296-02 | 1099E-12 | | 3207E-03 | <u>.</u> | | | | | | |
| 1 | 1 | .33 | 33986-82 | 1703E-12 | | 2561E-03 | | - | | | | | |
| | 3 | .36 | 366 35-02 | .1648E-02 | | 2729E-03 | • | | | | | | |
| | 3 | .36 | 3661E-02 | .17335-02 | | 3231E-03 | • | | | | | | |
| 5 | 1 5 | .30 | .3076E-02 | 1167E-12 | : | 7247E-03 | | | | | | | |
| 1 | 1 5 | . 30 | 304 75-02 | 1688E-12 | : | 7218E-83 | • | | | | | | |
| 1 | 3 | .34 | .349 8E-02 | .1613E-02 | • | 7510E-03 | | | | | | | |
| - | 3 | .34. | 34875-02 | -1717E-02 | • | 734 DE- 03 | 0 | | | | | - | |
| • | | .36. | 341 36 -02 | .2035E-12 | • | 2883E-03 | | | | | | | |
| | 2 | .34 | 347 85-02 | .7826E-03 | | 260 1E- 03 | | | | | | | |
| | | 36. | 36616-82 | -169GF-02 | | 2979F-03 | | | | | | | |
| | | | 3401F-82 | A 296.F - D.3 | | 12078-03 | | | | | | | |
| | , , | 12. | 31696-02 | 5 361F-12 | | 5255F-03 | | | | | | | |
| | | | | | | | the same of the same of the same of | Married in the last | | | | | - |
| - ' | | 100 | 20.00 | 31-316-16 | | 43776 | | | | | | | |
| | * | *5. | 34 40E-85 | ·15946-16 | | -02105E-03 | | | | | | | |
| • | • | *2. | 34916-02 | .1688E-02 | : | 5324E-03 | | | | | | | |
| 9 | 1 5 | .30 | 3060E-02 | .1964E-12 | | 7231E-03 | | | | | | | |
| 1 | 5 2 | .31 | 318 0E-02 | . 7447E-03 | | 7293E-03 | | | | | | | |
| • | 3 5 | .34 | 3492E-02 | .1665E-02 | : | 7424E-03 | | | | | | | |
| • | 6 2 | -35 | 35866-85 | . 8047E-03 | • | 7 28 1E-03 | | - | | - | - | - | - |
| TRESSE | S FOR BRI | STRESSES FOR BRICK ELEMENT NO. 19 MATERIAL = | T NO. 19 | | 2 | | | | | | | | |
| POINT | * | | 2 | SIGHAK | SIGHAY | SIGHAZ | TAUXY | TAUYZ | TAUZE | STGMAL | SIGME | SIGHAS | TAUMAX |
| | | | ****** | | | 1000 | | | 706.00 | | | 200 | - |
| 163 | . C*E *UI | : | | 1000 | . 405.409 | - 205 - | | 136-06 | 10.11. | . 465 + 02 | 100 | 305 + 04 | 162. |
| 184 | 245 484 | | LAFEADA | - 64 FAR | 1756496 | - 6 9F + R4 | . 6.8F + 8.7 | 206402 | 286+82 | 20101 | | | 1000 |
| | | | | 376-03 | 15F-02 | 646-03 | . 52F-04 | 26.6-05 | 24F-05 | 156-02 | - 17F-03 | | |
| 165 | . 23E+91 | .96 €+ 00 | . 46E+00 | | .35E+05 | 82E +04 | 15E+05 | 52E+01 | .74E+02 | . 42E+89 | 21E+04 | A2E+84 | 200 |
| | | | | | .125-02 | 67E-03 | 13E-02 | 45E-06 | .64E-05 | . 15E-02 | A BE-03 | 67E-83 | . 225 -02 |
| 186 | .236 +01 | .945+00 | .465+00 | *0+305. | .40E+09 | 39E+04 | 176+09 | .962+03 | 145+83 | . 472.25 | 136+84 | 39E+B4 | . 250 |
| | | | | 17E-03 | . 13E-02 | 58E-03 | 15E-02 | ·40-394. | 136-04 | . 16E-02 | 4 86-03 | 58E-03 | . 22E - 02 |
| 167 | . 24E+31 | | .12E+01 | | .45E+0S | 33E+04 | .10E+04 | .47E+02 | .22E • 03 | . 45E+05 | 245+84 | 33E+04 | . 24E +85 |
| | | | | | .15E-02 | 536-03 | .86E-04 | .41E-05 | . 196-04 | . 15E-02 | 49E-03 | 53E-03 | . 21E-02 |
| 168 | .25E+01 | : | .12E+01 | | .39E+05 | 685 + 04 | .92E+03 | 76E+01 | .37E+02 | . 395+05 | 82E+82 | 68E+ B | . 23E+85 |
| | | | | | .14E-02 | 61E-03 | . 80E-04 | 66E-06 | .32E-05 | . 14E-12 | 32E-03 | 61E-03 | . 28E -0 2 |
| 169 | . 23E+61 | .962+00 | .126+91 | | .34E+05 | 75E+04 | ISE+05 | 20+3/2. | .155+03 | . 396 + 05 | *0+382*- | 79E+B4 | . 23E+89 |
| | | | | 13E-03 | .12E-02 | 62E -03 | 12E-02 | 23E-05 | .135-04 | . 14E-02 | 38E-03 | 62E-03 | . 28E - 02 |
| 170 | . 235+01 | .94E+00 | .12E+01 | | . 38E+05 | 31E+04 | 16E+05 | .77E+03 | .22E+02 | . 49E+05 | 18E+84 | 32E+84 | . 245 +85 |
| | | | | | .13E-02 | 5 3E - 0 3 | 14E-82 | .67E-04 | .196-15 | . 15E-t2 | 48E-03 | 546-13 | . 21E-02 |
| 171 | .24E+01 | . 48E+00 | . 83E+09 | . 145+84 | . 45E+85 | 39F +84 | 91FANA | 246487 | K2F+62 | 445486 | | | |
| | | | | | | - | - 245 | **** | | | | | . C3E C |

...... MATERIAL126+11 .125.11 .465.33 .126+95 EL EMENT ELEMENT *** 36€+66 .965+46 .186.41 176.61 30.346. 14.341 175+01 BAICK .188 +61 1176441 · 5 35 +41 .235+61 .236+41 146.41 . 23€+01 113 THIO 17. 173 175 176 174 111

...... 7.11.2.1.1.2.1.1.2.1.1.2.1.1.2.1.1.2.1.1.2.1.1.2.1.1.2.1.1.2.1 144 342 . 23€+91 .232 191 .25E+01 1236421 .245+01 183

MATERIAL

HO. 21

NO ICK

24 32: 54

A thin A X (A thi MATEPIAL .196+01 146+3614 .126+01 .125+91 .126+91 .196+91 ELEMENT NO. *12£+91 196+01 34.46f 02.33.446f 02.33.46f 02 .966+88 * 346 + 88 .185+01 106+01 .176+81 946+80 BRICK 200 ** 3E +41 . 196 +01 .175+91 .23€ +91 . 23E+01 POINT 161 2 4 198 137

| ***** | 1 | .308 | 30895-02 | 1244E-12 | | 1158E-02 | | | | | | | |
|----------|-----------|--|-------------|----------------|----------|---|-----------|-------------|------------|-------------|-----------|-----------|---------|
| **** | | .305 | 30-36506 | 16555-12 | | 11504-02 | | | | | | | |
| | 1 | .364 | 364 1E-02 | .1707E-02 | | 118 2E-02 | | | | | | | |
| *** | | . 362 | 36245-02 | .1830E-02 | | 1171E-02 | | | | | | | |
| | • | **2. | 244EF-02 | 1283E-12 | | 1530E-02 | | | | | | | |
| ~ ~ ~ ~ | • | .242 | 24218-02 | 1786E-12 | | 1318E-02 | : | | | | | | |
| | 6 | .316 | .3165E-02 | .1520E-02 | | -,1351E-02 | : | | | | | | |
| | 6 | .314 | 31406-02 | .1 este-02 | | -119308-02 | | - | | | | | |
| | 1 | .307 | .30736-02 | .19995-12 | | 1159E-02 | | | | | | | |
| | | . 322 | . 3229E-02 | .7788E-03 | | 11656-02 | | | | | | | |
| | | . 363 | 36736-02 | .1768E-02 | | 1177E-02 | | | | | | | |
| | | *** | 324 MF - 82 | . 8496 8 - 0 3 | | 11626-02 | | | | | | | |
| | | 294 | 29475-02 | . 6324E-12 | | 1343E-02 | | | | | | | |
| | • | - | 700 70 me 7 | 48k 48 | | 12488-82 | - | - | | | | | - |
| | | 146 | 154.76-62 | 16775-02 | | 1274E-82 | | | | | | | |
| | . • | 25. | 36206-62 | TAREFORD | | 1 25 16 - 82 | | | | | | | |
| | | | 200 300 000 | 2000 | | 11.225.02 | | | | | | | |
| 9 | 5 | | 20-16 | 27-3661 | | 1 | | | | | | | |
| 7 | • | 42. | 79-20-07 | 1 200 100 | | 20-20-11 | | | | | | | |
| 9 | 6 | .315 | 31546-02 | .1587E-02 | | -114395-02 | | | | | | | - |
| 6 | • | 192. | 20-31992 | | | -,13305-02 | | | | | | | |
| STRESSES | FOR 961 | STRESSES FOR BRICK ELEMENT NO. 23 MATERIAL = | NO. 23 | MATERIAL = | 2 | | | | | | | | |
| Porter | * | | 2 | SIGNAX | SIGHAY | SIGHAZ | TAUXY | TAUYZ | TAUZK | TEMBIS | SIGME | SIGNAS | TAUMAX |
| | | | | 188x | EPSY | 282 | GAMMAXY | SAMMANZ | CAMMAEX | EPSI | EP\$2 | 23 | CAMMANA |
| 199 | 140382. | 0. | .196901 | 45E+6# | . #3E+10 | 126 +05 | .125.04 | 200362 | 145.04 | . 436 . 05 | | 12E . 19 | 24.24 |
| | | | | 468-63 | 165-02 | 795-83 | . 11E-03 | 202 | .1 ZE-03 | 196-02 | -196-13 | | |
| 500 | . 255 +01 | | .192+01 | 196-11 | 145-82 | 425-83 | 40-976 | 306-65 | 146-83 | 166-62 | 336-03 | 406-13 | 100 |
| | 235 461 | 968+08 | 196+11 | . 525+64 | 375+85 | 315 +03 | 156+05 | . 596+83 | .125.04 | . 4 3E + 05 | .74E+13 | 21E . B. | . 23E + |
| | | | | 19E-63 | .12E-02 | 435-03 | 13E-02 | . 52E-04 | .11E-03 | . 146-62 | 366-03 | 51E-03 | -382 |
| 201 | .236 061 | .942+00 | . 195.01 | . 296+01 | . 375.09 | 115+09 | 176+09 | .916483 | .805+83 | . ME . 89 | 366+84 | 11fv#5 | - 285 |
| | | | | 16E-03 | .136-02 | 77E-83 | 14E-02 | . 796-84 | .696-14 | . 166-62 | 44E-13 | 78E -03 | -342- |
| 203 | . 24E+01 | | .245+01 | 17E+E4 | .37E+85 | 146+05 | .20E+04 | .67 E+12 | .23E+04 | . 375+65 | 136.64 | 146 . 15 | . 206 |
| | | | | 29E-03 | 145-02 | 81E-03 | .176-03 | .58E-05 | .20E-13 | . 145-02 | 27E-03 | 63E - 83 | - 322 - |
| 204 | . 25E+01 | | .24E+31 | 135+04 | .35E+05 | . 2 45 + 04 | .195+04 | 29E+03 | . 32E+03 | . 36E+05 | * 50E +0+ | -106. | . 186 |
| | | | | 42E-03 | .12E-02 | 26E-03 | .165-03 | 26E-04 | .27E-14 | . 12E-62 | 266-13 | 436-13 | - 166- |
| 502 | . 23E+91 | . 362+00 | . 245+91 | .198.01 | . 302+89 | . 585 +83 | ISEOUS | 59E+13 | .256+13 | . 385.05 | .8920 | | . 202 . |
| | | | | 25E-63 | .98E-03 | -, 30E-03 | 12E-02 | 51E-04 | .21E-84 | . 12E-02 | 30E-03 | 496-83 | -17E- |
| 502 | . 23E +01 | .94E+00 | .24E+01 | . 415+64 | . 32E+05 | 125+05 | -, 13E+05 | .90 6 + 8 3 | .15 5 + 84 | . 37E + 05 | -115.00 | 1 3E + 85 | |
| | | | 2254.11 | : be-c. | .115-02 | 2000 | -125-02 | 796482 | - 286+83 | 20 - 201 | 10000 | | 3,2 |
| 207 | . 24E+01 | | · 555+91 | 105+04 | | 5 AF - 0 3 | 416-63 | . 64 F - 85 | 246-84 | 166-02 | 46F-03 | 58E-83 | 225- |

| | | | | | | | | | | | | | | | | | | | | | | G | -,10E+85 ,29E+85 -,70E-83 ,25E-82 | | | 55E-03 .23E-02 | | 76E-03 .25E-02 | -,79E-03 .23E-02 | | | 30E+03 - 29E+05 | | 93E+04 . 26E+09 | -,746-03 . (36-02 | • |
|---|------------|-----------|-----------|-----------|-----------|------------|------------|------------|-----------|-----------|-----------|-----------|------------|----------|------------|-----------|----------|-----------|------------|-----------|--|-----------------|--------------------------------------|-----------|---------|----------------|----------|----------------|------------------|-----------|----------|-----------------|----------|-----------------|-------------------|----------|
| | | | | | | | | - | | | | | | | | | | | | | | SIGNAP EPS2 | | .596+11 | 38E-03 | 436-43 | 186.84 | 44E-03 | 28E-13 | .67E+04 | 30E-03 | *** | 345-63 | . 966+13 | SIE-8 3 | 97 2+ 83 |
| | | | | | | | | | | | | | | | | | | | | | | S IGHA1 EPS1 | .47E-02 | . 55E+ 05 | .17E-02 | . 1AE-C2 | .495.65 | . 17E-02 | 156-12 | . 50E+15 | · 16E-02 | . 50E+05 | 156-02 | . 43E+05 | 156-02 | |
| | | | | | | | | | | | | | | | | | | | | | | TAUZK | .01E+03 | .126+04 | .11E-03 | .58E-84 | ·526+83 | .45E-04 | 135-83 | .26E+83 | .22E-04 | 36E+02 | 32E-05 | .91E+03 | - 7 9E - B4 | -14 |
| | | | | | | | | | | | | | | | | | | | | | | TAUYZ | .786-04 | .61E+03 | .53E-04 | . 65 E-04 | · 55E+13 | *47E-04 | . 87 E - 04 | 61E+03 | 53E-04 | 396+03 | - 33E-04 | . 85 E+83 | 255.00 | - C>E+02 |
| | : | • | : | | | | | | | | | | | | | | | | | | | TAUXY | -, 10E+05 | 18E+05 | 16E-02 | 27E+05 | 25E+t5 | -,21E-02 | 13E-02 | 17 E+05 | 14E-02 | -, 25E+85 | 22E-02 | 21E+05 | 186-02 | 21E+ 85 |
| | .1171E-92 | .1182E-12 | 1203E-02 | 1184E-02 | 1530E-02 | 1351E-02 | 1383E-02 | 19306-02 | 1177E-02 | -11996-02 | -1194E-02 | 1181E-02 | 1351E-02 | 1274E-62 | 1299E-02 | 1358E-02 | 1439E-02 | .1371E-02 | 1455E-02 | 1530E-02 | | SIGNAZ | 90E+84 | 70+ 36 T. | 435-03 | . 365 + 04 | 90E+04 | 76E-03 | 77E-03 | .675+04 | 30E-03 | **** | 34E-03 | 91E + 04 | - 74E-03 | . 305 - |
| | | | | | | • | | - | | | | | | | | | | | • | İ | 2 | SIGMAY | .145-02 | .486+05 | .14E-02 | . 655-03 | .245+05 | .66E-03 | 126-02 | . 435+85 | .13E-02 | *26E+85 | .58E-03 | . 23E+05 | . 56E-U3 | . 30E+85 |
| | . 1830E-02 | .1707E-02 | .3496E-02 | .35216-02 | .1654E-C2 | . 1526E-02 | . 3226E-C2 | . 32416-02 | .1768E-02 | 27235-62 | 3509E-02 | .2792E-02 | . 1805E-C2 | 16775-82 | . 3456E-02 | .3480E-02 | 1587E-02 | .2492E-02 | . 3232E-02 | .2566E-02 | STRESSES FOR SRICK ELEMENT NO. 24 MATERIAL = | SIGNAX | -145-63 | . 12E+65 | 14E-03 | . 27E+05 | . 22E+65 | .58E-03 | - 345-04 | . 93€+ 84 | 19E-03 | · 23E+05 | .47E-03 | . 20E+85 | 436-63 | . 13E+65 |
| | 36246-02 | 364 16-02 | 349EE-02 | 3521E-02 | 31405-02 | 3165E-62 | 322 0E-02 | 32416-02 | 36336-02 | 3A34F-02 | 350 95-02 | 34255-02 | 352 QF-02 | 35475-82 | 34565-02 | 34 BEE-02 | 3154F-02 | 34726-02 | 3232E-02 | 34556-02 | NO. 24 A | 2 | 196+91 | . 19E+ 01 | | .19E+01 | .19E+01 | | 10.342. | . 24E+91 | | .246+91 | | .246+01 | | *52E+01 |
| - | .362 | . 364 | 645. | .352 | .316 | .316 | .322 | .326 | .363 | 1843 | 350 | 342 | 352 | . 154 | 345 | 348 | 315 | .347 | . 323 | .345 | ELEMENT | | 99+346* | 96€+0€ | | .186+01 | *176+01 | | . 346+60 | .968+00 | | *106+01 | | .17E+01 | | .14E+01 |
| | | | | | • | • | 6 | | | | | | | | | • | | 6 | 6 | 6 | OR SRICK | × | . 23E+91 | . 23E +01 | | 104361. | .17E+91 | | . 25E+91 | . 23E+01 | | 196+91 | | .17E+01 | | . 21E+01 |
| - | 5 3 | | 7 5 | 5 | 5 | 7 | 7 5 | • | . 9 | | | | | | | | | | 9 | • | TRESSES FL | POINT | 200 .23 | 269 . 23 | | 210 | 111 .17 | | 212 | 213 .23 | | 214 .11 | | 215 .17 | | 216 .21 |

ELEHENT SUMMARY REPORT

THREE HOST HIGHLY STRESSED ELEMENTS

FLEMENT FOUNT STRESS

I J MO. 100 MO. 1 M

| SIGNA MAX | - | - | - | * | 837E+C3 | - | | - | - | 8415+03 | - | ~ | - | 10 | M.1E+03 |
|-------------------|-------|------|---|------|--------------|---|---|---|-----|-----------|---|---|---|------|-------------|
| SIGNE MIN | • | - | - | 20 | 1695+04 | E | 1 | - | 23 | 1685+84 | ~ | m | - | 62 | 160€+84 |
| TAU WAY | - | - | | t. | .2765+03 | 1 | - | | 1, | .276E+83 | - | 1 | | 31 | .275E-03 |
| EPS MAX | - | - | - | • | .2346-01 | - | - | - | • | 10-3162. | - | - | - | = | .281E-01 |
| HIH SAD | - | - | 8 | 13 | 292E-C1 | - | - | | 14 | 2926-01 | - | - | • | 1 | 2526-01 |
| - | - | - | • | 73 | .436E-01 | 1 | - | • | * | .4 356-01 | - | - | • | 8 | 10-348 |
| HATERIAL NUMBER = | AL NU | 19ER | | 2 | | | | | | | | | | | |
| SIGHE HAX | • | • | | 503 | .551E+05 | • | | | 210 | .547E+85 | • | • | - | 155 | · 583E + 85 |
| SIGNA MIN | • | - | | 293 | 1426+05 | • | - | | 586 | 127E+85 | • | - | | ž | 1246+89 |
| TAU WAX | • | • | - | * | *290 E + 0 S | • | • | - | 151 | .2895+85 | • | m | 1 | 882 | .28\$E+8\$ |
| EPS MAX | • | • | - | 156 | .178E-02 | | • | 1 | 210 | .1776-02 | • | m | • | * | .177E-02 |
| MIN SAR | • | - | | 203 | 6326-03 | | - | 1 | 199 | 603E-03 | • | m | | 27.2 | 787E-83 |
| GAMMA MAX | | • | - | 1.54 | .252E-02 | • | • | - | 157 | .2515-02 | 8 | • | | 200 | 4247E-62 |

PINE IN POST TO CORREGE GRID ELEMENTS POSSIBLE = NAXIMUM NUMBER OF CORREGERID ELEMENTS POSSIBLE = NAXIMUM DIMENSION OF REFINED GRID = 1331

NAMINON NUMBER OF GRIC POINTS IN ANY ONE DIRECTION = 19

. 6635 + 00 . 6635 + 00 . 6846 + 00 . 6846 + 00 . 6846 + 00 . 6836 + 00 . 1206 + 01 . 1206 + 01 . 1206 + 01 2-C004 0 . 511E 00 . 183E + 00 0. . 652E + 00 . 652E + 00 . 953E + 00 . 696E + 00 . 244E + 66 V-COORD .123E 01 .921E 00 .120E 01 .165E 01 .165E 01 .177E 01 .177E 01 .192E 01 X-C00PD 33302 3401011 461103 461103 461103 561102 561102 561102 561102 561102 561102 1 7 % 1224847958 2-00080 Y-COORD COARSE GRID ELEMENT = 5 HODE K J I X-COORG .94.0E+00 -16.9E+01 -16.0E+01 -17.2E+01 -17.2E+01 -17.2E+01 -17.2E+01 -17.2E+01 -17.2E+01 -17.2E+01 -17.2E+01 30101 30101 30101 30101 30101 30101 30101 30101 30101 30101

FINE GAID ELEMENT = 1
HODE I J K X-COOFG Y-COORD Z-COORD MODE I J K X-COORD Y-COORD Z-COORD

| 7 3 8 1 9 2 10 3 0INT,CLA TYPE 1 2 3 | | 5 3 3 | .146E+01 .113E+01 .113E+01 | .2815+00 | | 16 | 3 | 3 | : | .138E+01 | .270E+98 .198E+08 | . 657E+00 |
|--|--------|-------|----------------------------------|----------|----------------------------------|----------------------|-----|-------|-----|--|----------------------------------|------------------------|
| TYPE 1 2 3 | HP, AN | 77 | .132E+G1 | .213E+00 | .849E+00 .463E+00 .463E+00 | 17 18 19 20 | 3 2 | 2 3 2 | 5 5 | .150E+01 .150E+01 .129E+01 .117E+01 | .148E+00 .247E+98 .116E+08 | . 847E+00 . 847E+00 |
| 1 2 3 | * | O 2F | OPE TYPE BC. | | | | - | | | | | |
| 3 | | ODE | VALUE | | | | | | | | | |
| 3 | | | .1473E-0 | | | | | | | | | |
| | | : | .3947E-0 | | | | | | | | | |
| | | 1 | .15198-0 | | | | | | - | | | |
| ż | | i | .3898E-0 | | | | | | | | | |
| 3 | | 1 | 2204 E-0 | 1 | | | | | | | | |
| 1 | | 5 | .9150E-0 | | | | | | | | | |
| 5 | | 5 | 1026E-0 | | | | | | | | | |
| 3 | | 5 | 181GE-0 | | | | | | | | | |
| 1 | | 8 | .9240E-0 | | | | | | | | | |
| 2 | | 8 | .3908E-0 | | | | | | | | | |
| 1 | | 2 | .1498E-0 | | | | | | | | | |
| 2 | | 2 | .2056E-0 | | | | | | | | | |
| 3 | | 2 | 2172E-0 | | | | | | | | | |
| 1 | 1 | 3 | 1102E-0 | 11 | | | - | | | | | |
| 2 | | 3 | 6569E-0 | 19 | | | | | | | | |
| 3 | | 3 | 2023E-0 | | | | | | | | | |
| 1 | | 0 | .9158E-0 | | | | | | | | | |
| 2 | | 0 | .2014E-0 | | | | | | | | | |
| 1 | | 6 | 1783E-0 | | | | | | | | | |
| 2 | | 6 | .3892E-0 | | | | | | | | | |
| 3 | | 6 | 1959E-0 | | | | | | | | | |
| 1 | | 2 | . 9539E-0 | | | | | | | | | |
| 2 | | 2 | 1042E-0 | | | | | | | | | |
| 3 | | 2 | 153CE-0 | 11 | | | | | | | | |
| 1 | | 6 | .5956E-0 | 12 | | | | | | | | |
| 2 | | 6 | 2135E-0 | | | | | | | | | |
| 3 | | 6 | 1171E-0 | | | | | | | | | |
| 1 2 | | 9 | .1205E-0 | | | | | | | | | |
| 3 | | 9 | 1849E-0 | | | | | | | | | |
| 1 | | | .75 17E-0 | | | | - | | | | | |
| 2 | | 4 | 1936E-0 | | | | | | | | | |
| 3 | | 4 | 1355E-0 | | | | | | | | | |
| 1 | | 7 | .7336E-0 | | | | | | | | | |
| 2 | | .7 | 1849E-0 | | | | | | | | | |
| 3 | | 7 | 1467E-0 | | | | | | | | | |
| 1 | | 3 | • 9279€-6 | | | - | | | | and the same of th | ** | |
| 2 | | 3 | .2137E-G | | | | | | | | | |
| 3 | | 3 | 1511E-0 | | | | | | | | | |
| 1 2 | | 1 | .1170E-0 | | | | | | | | | |
| 3 | | 1 | 1615E-G | | | | | | | | | |
| 1 | | | .9414E-0 | | | | | | | | | |
| 2 | | 0 | .1106F-0 | | | | | | | | | |
| 3 | 1 | 0 | 15 18E-0 | 11 | | | | | | | | |
| | | | | | | | | | | | | |
| INE GRID | | | | | | | 1 | | | | | |
| 1 30c | 9 | K . | X-C00R0 | Y~600R0 | Z-600RD | NODE | | _ | 5 | *-COORD -129E+01 | Y-000R0 | Z-000#D |
| 1 1 2 3 | 1 | 5 | .120E+01 | 0. | .854E+00 | 11 | 2 | 3 | 5 | .129E+01 | .247E+00 | . 847F+00 |

| ٠ | | | | | | 4.0 | | | • | * TOBEART | ** | . 1035 407 |
|------|--------|------------|--------------|-------------|--------------|------|-----|-----|---|--|-----------|------------|
| • | 1 | 3 5 | ·113E+01 | · SIZE+AA | . 84.96 . 88 | 16 | 3 | 3 | • | *163E+81 | 1. | . 183E+81 |
| 5 | 1 | 1 7 | .154E+01 | 0. | . 120E+01 | 15 | 3 | 3 | | -155E+81 | .291E+00 | - 103E+01 |
| 6 | 3 | 1 7 | .177E+01 | | . 12CE+81 | 16 | 1 | 17. | • | .126E+81 | . 229E+38 | . 103E+01 |
| 7 | 3 | 3 7 | .166E+01 | . 302 E+0 0 | .120E+01 | 17 | 5 | 1 | 7 | .166E+11 | | . 120 E+01 |
| • | 1 | 3 7 | .140E+01 | . 244E+00 | . 120E+01 | 18 | 3 | 2 | - | .173E+81 | .165E+08 | .120E+01 |
| 9 | 5 | 1 5 | . 139E+01 | U. | . 852E+88 | 19 | 2 | 200 | 7 | -153E+81 | . 272E+88 | · 151E+81 |
| 10 | 2 | 2 5 | .150E+01 | .1.46E+6C | . 647E+86 | 50 | 1 | 2 | • | .140E+81 | . 148E+88 | . 128E+01 |
| | T CL A | HP. AND SL | OPE TYPE BC. | | | | | | | | | |
| | 1 | MOUE | . 9240E-02 | | | | | | | | | |
| | ż | | .39006-62 | | | | | | | | | |
| | 3 | | 1756E-01 | | | | | | | | | |
| | 1 | 1 | .9150E-02 | | | | | | | | | |
| | 5 | 1 | 1026E-00 | | | | | | | | | |
| | 3 | | 18182-61 | | | - | - | | | | | |
| | 1 | 5 | .5896 E-82 | | | | | | | | | |
| | 2 | • | . 26746-69 | | | | | | | | | |
| | 3 | 5 | 1288E-01 | | | | | | | | | |
| | 1 | | .5875E-02 | | | | | | | | | |
| | 5 | 8 | .4150E-02 | | | | | | | | | |
| | 2 | 8 | 127CE-01 | | | - | | | | | | |
| | 1 | 12 | .9158E-02 | | | | | | | | | |
| | 5 | 12 | .2014E-08 | | | | | | | | | |
| | 3 | 12 | 1783E-01 | | | | | | | | | |
| | 1 | 13 | .7174E-02 | | | | | | | | | |
| | S | 13 | 7181E-09 | | | | | | | | | |
| | 2 | 13 | 19692-01 | | | | | | | | | |
| | ı | 20 | .5790E-02 | | | | | | | | | |
| | 3 | 20 | .2111E-02 | | | | | | | | | |
| | 1 | 16 | .7292E-02 | | | | | | | | | |
| | ż | 16 | .3994 E-02 | | | | | | | | | |
| | 3 | 16 | 1526E-01 | | | - | - | | - | - | | |
| | i | 2 | .5956E-02 | | | | | | | | | |
| | 5 | 5 | 2135E-C8 | | | | | | | | | |
| | 3 | 2 | 1171E-01 | | | | | | | | | |
| | i | 6 | .4214E-02 | | | | | | | | | |
| | ž | 6 | 450FE-09 | | | | | | | | | |
| | 3 | | 77822-62 | | | | | | | | | |
| | 1 | 9 | .7336E-02 | | | | | | | | | |
| | 2 | 9 | 1849E-08 | | | | | | | | | |
| | 3 | 9 | 1467E-01 | | | | | | | | | |
| | 1 | 14 | .4 455 6-02 | | | | | | | | | |
| | 2 | 14 | 1640E-C | | | | | | | | | |
| | 3 | 14 | 97900-02 | | | | | | | | 10 man | |
| | 1 | 17 | .4940E-02 | | | | | | | | | |
| | 2 | 17 | 2740E-09 | | | | | | | | | |
| | 3 | 17 | 1004E-01 | | | | | | | | | |
| | 1 | 7 | .4862E-03 | | | | | | | | | |
| | 2 | 7 | .1813E-02 | | | | | | | | | |
| | 3 | | 8929E-02 | | | | | | | | | |
| | 1 | 18 | .4474E-0 | | | | | | | | | |
| | 5 | 16 | .86726-03 | | | | | | | | | |
| | 3 | 18 | 0284E-02 | | | | | | | | | |
| | 2 | 19 | .2816E-02 | | | | | | | | | |
| | 3 | 19 | 1077E-01 | | | | | | | | | |
| | | ELEHENT | | | | | | | | | | |
| NODE | | | X-COORD | Y-COORD | Z-COORD | NODE | 1 | J | | X-COORD | Y-COORD | Z-COORD |
| | | J K | .921E+00 | .183E+00 | .463E+00 | 11 | 5 | 5 | K | .105E+01 | .435E+00 | . 463E+00 |
| 1 | . 3 | 3 3 | .131E+01 | . 260E+0C | . 463E+00 | 12 | - 1 | - | 3 | ************************************** | .272E+00 | .463E+08 |
| 3 | 3 | 5 3 | .123E+C1 | .5115+00 | . 463E+00 | 13 | î | 3 | 4 | .102E+01 | .198E+00 | . 660E+00 |
| | | | | .360E+00 | .463E+00 | | | 3 | 4 | .138E+01 | .270E+00 | |
| 4 | 1 | 5 3 | . 868E+0C | | . 4632+00 | 14 | 3 | 3 | | | | . 657F+00 |

| 6 7 8 9 | 3 1 2 3 | 3 5 5 3 | 5 .146E+01 5 .132E+C1 5 .995E+00 3 .111E+01 3 .128E+01 | . ZA15+7C . ZA15+7C . 5 00E+0C . 3525+0C . 221E+00 . 386E+00 | .045E+00 .041E+00 .044E+00 .463E+00 | 16 17 18 19 20 | 2 3 2 1 | 3 4 5 4 | 5 5 5 5 | .1276+81 .1296+81 .1406+81 .1166+81 | .356 E+00 .247 E+00 .396 E+00 .426 E+00 .292 E+70 | . 656 E + 00 . 647 E + 00 . 643 E + 00 . 642 E + 00 . 646 E + 00 |
|------------------|---------|---------|--|---|--|----------------------------|---------|---------|---------|--|---|--|
| | | | SLOPE TYPE BC. | | | | | | | | | |
| Y | ABE | | DE VALUE | | | | | | | | | |
| | 1 | | .1411E- | | | | | | | | | |
| | 3 | | 2051E- | | | | | | | | | |
| | 1 | 1 | .1473E-1 | 11 | | | | | | | | |
| | 5 | 1 | | | | | | | | | | |
| | 3 | 1 5 | 2136E- | | | | | | | | | |
| | | • | .3908E-1 | | | | | | | | | |
| | 3 | 5 | 1756E- | | | | | | | | | |
| | 1 | | .9629E- | | | | | | | | | |
| | 3 | 8 | .7339E-0 | | | | | | | | | |
| | 1 | 12 | .1444E-0 | | | | | | | | | |
| | 5 | 12 | .56716-0 | | | | | | | | | |
| | 3 | 12 | | | | | | | | | | |
| | 1 | 13 | ·1172E- | | | | | | | | | |
| | 2 | 13 | .3892E-0 | | | | | | | | | |
| | 1 | 20 | .9397E-0 | | | | | | | | | |
| | | - 24 | .5603€-€ | | | | - | | | | - | a most in the |
| | 3 | 20 | 1729E- | | | | | | | | | |
| | 1 2 | 16 | .1168E- | | | | | | | | | |
| | 3 | 16 | .7214E-0 | | | | | | | | | |
| | 1 | 3 | .8976E-C | | | | | | | | | |
| | 5 | 3 | . 3976E-C | 2 | | | | - | | | | |
| | 3 | 3 | 1510E-0 | | | | | | | | | |
| | 1 | 7 | .7101E-0 | | | | | | | | | |
| | 2 | 7 | . 3642E-0 | | | | | | | | | |
| | 1 | 11 | .1124E-C | | | | | | | | | |
| | 5 | 11 | . : 349E-0 | | | | | - | | | | |
| | 3 | 11 | 178GE- | | | | | | | | | |
| | 2 | 19 | .8272E-0 | | | | | | | | | |
| | 3 | 19 | 1512E-0 | | | | | | | | | |
| | 1 | 15 | .7924E- | | | | | | | | | |
| | 5 | 15 | . 3731E-C | | | | | | | | | |
| | 3 | 15 | 1411E-0 | | | | | | | | | |
| | 2 | 2 | .9279E-0 | | | | | | | | | |
| | 3 | ž | 1511E-C | | | | | | | | | |
| | 1 | 10 | . 9133E-C | | | | | | | | | |
| | 5 | 19 | • 3095€-6 | | | - | | - | | | | |
| | 3 | 10 | 1508E-0 | | | | | | | | | |
| | 2 | 9 | .1170E-0 | | | | | | | | | |
| | 3 | , | 1815E-0 | | | | | | | | | |
| | | | | AR THE STATE OF | | | | | | | | |
| | | ELEME | | | 1000 | | | | - | | | |
| NODE | I | | X X-COORD 5 .113E+C1 | Y-COURT -213E+00 | Z-COORD | NODE | I | 5 | K | X-COORD | Y-C00R0 | Z-COORD |
| 2 | 3 | | 5 .146E+01 | .213E+0C | .849E+88 | 11 | 1 | 4 | 5 | .116E+01 | .426E+G0 | . 942E+00 |
| 3 | 3 | | .132E+01 | .300E+00 | .841E+00 | 13 | i | 3 | 6 | .126E+01 | .229E+00 | . 1035+01 |
| | -1 | | 5 +95E+00 | - +3525+00 - | | 14 | -3 | - 3 | - | *155E+01 | - 1291E+00 | . 103E+01 |
| 5 | 1 | 3 | 7 .140E+01 | .244E+0C | .15CE+01 | 15 | 3 | 5 | 6 | .137E+81 | .495E+88 | . 102F+61 |
| 6 | 3 | | 7 .166E+C1 | .305E+00 | . 12CE+01 | 16 | 1 | 5 | 6 | -107E+01 | .348E+00 | . 103E+01 |

| | , | | | ******* | | 41 | | • | | . 4> 35 46 4 | | . 1 CUE TU |
|----------|--------|-------|--------------|----------------|-----------|------|-----|----|---|--------------------------|--|------------|
| 8 1 | 5 | 7 | ·116E+81 | . 345E+88 | 1505+01 | 10 | 3 | , | 7 | .156E+01 | ************************************** | . 120E+01 |
| 9 2 | | 5 | .129E+01 | .247E+00 | . 847E+88 | 19 | 2 | 3 | 7 | .129E+81 | .416E+00 .312E+00 | .120E+01 |
| | | | | | | | | | | | Electric de la constitución de l | |
| OINT .CL | AHP, I | NO SL | OPE TYPE BC. | | | | | | | | | |
| 1 | | MODE | .9629E-0 | , | | | | | | | | |
| į | | | .7339E-0 | | | | | | | | | |
| 3 | | | 1701E-0 | | | | | | | | | |
| 1 | | 1 | .92416-1 | | | | | | | | | |
| 3 | | 1 | .3900E-0 | | | | | | | | | |
| i | | 5 | 1756E-6 | | | | | | | | | |
| į | | • | .4150E-0 | | | | | | | | | |
| 3 | | 5 | 1270E-0 | | | | | | | | | |
| 1 | | | .66226-0 | | | | | | | | | |
| 5 | | 8 | .8869E-0 | | | | | | | | | |
| 1 | | 12 | .9397E-0 | | | | | | | | | |
| 2 | | 12 | .5603E-0 | | | | | | | | | |
| 3 | | 12 | 1729E-0 | | | | | | | | | |
| 1 2 | | 13 | .7292E-0 | | | | | | - | | | |
| 3 | | 13 | .3994 E-0 | | | | | | | | | |
| 1 | | 20 | .6153E-0 | | | | | | | | | |
| 2 | | 20 | .6116E-C | | | | | | | | | |
| 3 | | 20 | 1267E-0 | | | | | | | | | |
| 1 2 | | 16 | .79412-0 | | | | | | | | | |
| 3 | | 16 | 14946-6 | | | | | | | | | |
| 1 | | 3 | .7101E-0 | | | | | | | | | |
| 2 | | 3 | . 3642E-0 | | | | | | | | | |
| 3 | | 3 | 1303E-0 | | | | | | | The second second second | | |
| 2 | | 7 | . 39396-0 | | | | | | | | | |
| 3 | | 7 | 1062E-0 | 1 | | | | | | | | |
| 1 | | 11 | .8272E-0 | | | | | | | | | |
| 2 | | 11 | .5198E-0 | | | | | | | | | |
| 1 | | 19 | . 64976-6 | | | | | | | | | |
| 2 | | 19 | .5644E-0 | | | | | | | | | |
| 3 | | 19 | 1185E-0 | | | | | | | | | |
| 1 2 | | 15 | .6508E-0 | | | | | | | | | |
| 3 | | 15 | 1187E-0 | | | | | | | | | |
| 1 | | | .48826-0 | 2 | | | | | | | | |
| 2 | | 6 | .1813E-0 | | | | | | | | | |
| 3 | | 6 | 89256-0 | | | | | | | | | |
| 2 | | 18 | .544CE-0 | | | | | | | | | |
| 3 | | 18 | 9703E-0 | | | | | | | | | |
| 1 | | 17 | .5370E-0 | | | | | | | | | |
| 2 | | 17 | .2816E-0 | | | | | | | | | |
| 3 | | ., | 1077E-0 | • | | | | | | | | |
| INE GRI | | MENT | | | | | | | | | | |
| ODE I | J | K | X-COORD | Y-COORD | Z-COOPD | NODE | I | J | K | X-COORD | Y-COORD | 7-COORD |
| 1 3 | | 3 | .132E+01 | | . 463E+00 | 11 | * | 3 | 3 | .1502+01 | . 2902+00 | . 4635+00 |
| 3 5 | 3 | 3 | .169E+01 | 0. .3365+0C | .463E+00 | 12 | 3 | 2 | 3 | .132E+C1 | .131E+80 | . 463F+00 |
| 4 3 | | 3 | .131E+01 | . 260E+00 | .463E+00 | 14 | 5 | 1 | | .141E+01 | 0. | . 656E+00 |
| 5 3 | 1 | 5 | . 15 1E+C 1 | 0. | .849E+00 | 15 | 5 | 3 | 4 | .173E+01 | .343E+00 | .654E+00 |
| 6 - | | - 5 | .1026+61 | 0. | *844E+86 | 16 | - 3 | -3 | + | .139E+01 | ********* | . 6977 +00 |
| 7 5 | 3 | 5 | .179E+C1 | . 350 =+00 | .841E+00 | 17 | | 1 | 5 | .167E+01 | 0. | . 846E+00 |
| | | , | .146F+01 | . 281E+00 | . 645E+00 | 18 | 5 | 2 | 7 | .182E+01 | .181E+00 | . 642E+00 |

```
POINT.CLANP, AND SLOPE TYPE BC.

TYPE NOBE

1 2 .6640E-02

2 2 .7516E-87

3 2 .9979E-02

1 3 .6296E-02

2 3 .1346E-02

2 7 .6945E-03

3 7 .7363E-02

2 7 .6945E-03

3 7 .7363E-02

2 6 .197E-03

3 7 .7363E-02

2 6 .197E-03

3 10 .9734E-02

2 10 .6653E-03

3 10 .9734E-02

2 10 .6653E-03

3 10 .9734E-02

2 10 .6652E-03

3 10 .9734E-02

2 10 .6652E-03

3 10 .9734E-02

1 10 .3556E-02

2 11 .9536E-02

2 12 .1042E-03

3 14 .9536E-02

2 15 .1042E-03

3 1 .1550E-03

3 1 .1550E-03

3 1 .1550E-03

3 1 .1550E-03

3 1 .1530E-01

1 1 .9539E-02

2 1 .171E-01

1 1 .7570E-02

3 1 .171E-01

1 1 .7595E-02

3 1 .171E-01

1 1 .7595E-02

3 1 .150E-03

3 1 .1530E-01

1 1 .7595E-02

2 1 .7042E-03

3 1 .1550E-01

3 1 .1550E-01

4 .7535E-02

5 .2135E-06

3 1 .150E-02

4 .2135E-06

3 1 .7595E-02

4 .2135E-06

3 1 .7595E-02

4 .2135E-06

3 1 .7595E-02

5 .7171E-01

2 1 .7595E-02

4 .2135E-06

3 1 .7595E-02

5 .7595E-02

5 .7595E-02

7 .9948E-09

7 .7596E-02

7 .9948E-09

7 .1985E-08

1 1 7 .925E-08

1 1 1 .7479E-02

3 1 1 .1516E-01

2 1 1 .7479E-02

3 11 .1516E-01

2 11 .161E-62

3 11 .1527E-01
           10 5 2 3 .1725-01 .1695-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 2 3
                                                                                                                                                                                                                                                                                                                                                               ***** SE+84 SE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .153E+01
                                                                                                                                                                     FINE GRID ELEMENT =

NODE I J K

1 3 1 5

2 5 1 5

3 5 3 5

4 3 3 5

5 3 1 7

6 5 1 7

7 5 3 7

9 4 1 5

10 5 2 5
                                                                                                                                                                6

X-COORD

.151E-C1

.182E-C1

.179E-61

.146E+01

.177E+C1

.192E+01

.166E-F1

.167E-C1

.182E+01
                                                                                                                                                                                                                                                                                                                                                            Z-COORO

.849E+00

.844E+00

.844E+00

.445E+00

.120E+01

.120E+01

.120E+01

.120E+01

.446E+00

.842E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X-COORD
.162 E+C1
.157 E+C1
.157 E+C1
.163 E+C1
.190 E+C1
.155 E+C1
.155 E+C1
.179 E+C1
.173 E+C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Z-COORD

. M43E+00

. 947F+00

. 193E+04

. 103E+01

. 103E+01

. 120E+01

. 120E+01

. 120E+01

. 120E+01
                                                                                                                                                                                                                                                     Y-COORD
0.
0.
3505+00
.2815+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Y-COORD
.315E+00
.148E+00
                                                                                                                                                                                                                                                                                                                                                                                                                                             NODE
11
12
13
14
15
16
17
19
20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 4 3 3 5 5 3 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 K5566667777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .148E+00
0.
.357E+00
.291E+00
0.
.192E+00
.332E+00
.165E+00
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| POI | TYPE | ONA, THE | SLOPE TYPE BC. | | | | | | | | | |
|-----------------------|---------|-------------------|----------------------------------|----------------------------------|----------------------------------|----------------|---|---|---|----------------------------------|----------------------------------|----------------------------------|
| | | | | | | | | | | | | |
| | 1 | 5 | .4497E-C | | | | | | | | | |
| | 5 | 5 | 1097E-0 | | | | | | | | | |
| | 3 | 5 | 7200E-C | | | | | | | | | |
| * | 1 | 3 | .4781E-8 | | | | | | | | | |
| | 5 | 3 | . 69456-0 | | | | | | | | | |
| | 3 | 3 | 7363E-0 | | | | | | | | | |
| | 1 | 7 | .3895E-0 | | | | | | | | | |
| | 2 | 7 | .7938E-0 | | | | - | | | | | |
| | 3 | 7 | 5469E-0 | | | | | | | | | |
| | 1 | 6 | .34482-0 | 5 | | | | | | | | |
| | 2 | 6 | .2910E-0 | • | | | | | | | | |
| 1 | 3 | | 5014E-0 | 2 | | | | | | | | |
| | 1 | 10 | .4607E-0 | 2 | | | | | | | | |
| | 2 | 10 | .3855 6-0 | 3 | | | | - | - | | | |
| | 3 | 10 | 7195E-0 | 2 | | | | | | | | |
| | 1 | 15 | .42598-0 | 2 | | | | | | | | |
| | 2 | 15 | . 6600E-0 | | | | | | | | | |
| | 3 | 15 | 6372E-0 | | | | | | | | | |
| | 1 | 18 | .3619E-0 | | | | | | | | | |
| | 2 | 18 | .28228-0 | | | | - | - | - | | | |
| | 3 | 18 | 5122E-0 | | | | | | | | | |
| | 1 | 14 | .3861E-0 | | | | | | | | | |
| | ż | 14 | 7589E-0 | | | | | | | | | |
| | 3 | 14 | 60 30E-0 | | | | | | | | | |
| | 1 | 1 | .5956E-G | | | | | | | | | |
| | | i | 21392-0 | | | | | | | | | - |
| | 2 | | | | | | | | | | | |
| | 3 | 1 | 1171E-0 | | | | | | | | | |
| | 1 | 5 | .4214E-0 | | | | | | | | | |
| | 2 | 5 | 4505E-0 | | | | | | | | | |
| | 3 | 5 | 7780E-C | | | | | | | | | |
| | 1 | 9 | .5010E-0 | | | | | | | | | |
| | 2 | • | *.1885E-0 | | | | | | | | | |
| | 3 | 9 | 9225E-0 | | | | | | | | | |
| | 1 | 17 | .37176-0 | | | | | | | | | |
| | 2 | 17 | 2622E-0 | | | | | | | | | |
| | 3 | 17 | 6105E-0 | | | | | | | | | |
| | 1 | 13 | .4855 E-0 | 2 | | | | | | | | |
| | 2 | 13 | 16486-8 | 8 | | | | - | - | | | |
| | 3 | 13 | 979GE-0 | 2 | | | | | | | | |
| | 1 | | .40026-0 | 2 | | | | | | | | |
| | 2 | | .1813E-0 | 2 | | | | | | | | |
| | 3 | | 8925E-0 | 2 | | | | | | | | |
| | 1 | 19 | .4388E-0 | | | | | | | | | |
| | 2 | 19 | .11382-0 | | | | | | | | | |
| | 3 | 19 | 7157E-0 | | | | | | | | | |
| | 1 | 20 | .4474E-0 | | | | | | | | | |
| | ž | 20 | . 8672E-0 | | | | | | | | | |
| | 3 | 20 | 8284 E-0 | | | | | | | | | |
| | | - | | | | | | | | | | |
| | E 6810 | ELEMEN | | | | | | - | | | | |
| NODE | | JK | | Y-COORD | Z-COORD | NODE | 1 | | K | X-COORD | Y-C0080 | Z-COORD |
| 1 | 3 | 3 3 | | . 260 E+ CC | . 463E+88 | 11 | | 5 | 3 | .142 E+t 1 | .567E+08 | . 463E+80 |
| 2 | 5 | 3 3 | | . 336E+0C | . 463E+00 | 12 | 3 | 4 | 3 | .128E+01 | .386 E+00 | . 463F+00 |
| | 5 | 5 3 | | .663E+0C | . 463E+00 | 13 | | | 3 | | | .657F+00 |
| | | | | .511E+0C | . 463E+00 | | 3 | 3 | 7 | .138E+01 | .270E+00 | .654E+00 |
| 3 | | | | • 7115 + 01 | | 14 | 5 | 3 | • | .173E+01 | .343E+00 | . 0541 + 00 |
| 3 | 3 | 5 3 | | | | | | | | *162E+01 | .657E+00 | |
| 3 4 5 | 3 | 3 5 | .146€+81 | .2015+00 | . 045E+00 | 15 | 5 | 5 | | | | .652E+00 |
| 3 4 5 6 | 3 5 | 3 5 | .146E+81 .179E+01 | . 3505+96 | .841E+00 | 16 | 3 | 5 | • | .127E+C1 | .506E+00 | .652E+00 |
| 3 4 5 6 7 | 3 5 5 | 3 5 5 5 | .146E+01 .179E+01 .165E+01 | . 3505+00 | .841E+00 .838E+00 | 16 | 3 | | 5 | .127E+C1 | .506E+00 | .652E+00 .654E+00 .843E+00 |
| 3 4 5 6 7 | 3 5 5 5 | 3 5 5 5 5 5 | .146E+01 .179E+01 .165E+01 | .3505+90 .6525+00 .5005+00 | .841E+00 .838E+00 .841E+00 | 16 17 18 | 3 | 3 | 5 | .127E+C1 .162E+91 .173E+01 | .506E+00 .315E+00 .507E+00 | .652E+00 .654E+00 .843E+00 |
| 3 4 5 6 7 | 3 5 5 | 3 5 5 5 | .146E+01 .179E+01 .165E+01 | . 3505+00 | .841E+00 .838E+00 | 16 | 3 | 5 | 5 | .127E+C1 | .506E+00 | .652E+00 .654E+00 .843E+00 |

POINT, CLAMP, AND SLOPE TYPE BC.

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5 5
                                                                                                                                 377766600015518884444488811116661999111222999
FINE GRID ELEMENT NODE I J K 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 7 6 5 3 7 7 7 7 5 5 7 7 9 4 3 5 5 10 5 4 5 5
                                                                                                                           8
X-COORD
*146E+81
*179E+01
*165E+81
*132E+01
*166E+81
*172E+01
*143E+81
*143E+81
*173E+61
*173E+61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X-COORD

.140E+81

.149E+01

.155E+01

.165E+01

.166E+61

.179E+01

.183E+01

.157E+01
                                                                                                                                                                                                   Y-COORD

• 2915+00

• 350E+00

• 550E+00

• 500E+00

• 302E+00

• 363E+00

• 640E+00

• 489E+00

• 315E+06

• 507E+00
                                                                                                                                                                                                                                                                            Z-COORD

045E+00

041E+00

030E+06

041E+00

120E+01

120E+01

120E+01

043E+00

064CE+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Y-COORD

.576±+89

.398±+00

.291±+00

.357±+00

.495±+00

.332±+00

.513±+00

.564±+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Z-COORD

:049E+00

:049E+00

:103E+01

:102E+01

:102E+01

:120E+01

:120F+01

:120F+01

:120F+01
                                                                                                                                                                                                                                                                                                                                            NODE
11
12
13
14
15
16
17
16
19
20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .410E+30
                                                                                                                                       TYPE 86.
VALUE
.4781E-02
   POINT ICL AM
                                                                          NODE 2
                                     1
```

TIME IN REZONE = 1.281 SECONDS
TIME IN FORMER = 3.698 SECONDS
TIME IN PREFRONT = .389

TOTAL NUMBER OF D.O.F./S = 278

D.O.F. IN FRONT = 112

HAXIMUM ACTIVE STORAGE = 224

BUFFER LENGTH = 18833

TIME IN FORWARD ELIMINATION = 7.523

TIME IN BACKSUBSTITUTION = .659

BLOCK OPTION

| | | | 80U | 200 | | | |
|--------|------------|---------|----------|--------|---|-----|-----|
| | PIN | | MAX | | | HIN | HAX |
| × | 1000E+21 | .11 | 00E+21 | | 1 | 0 | 0 |
| | 1000E+21 | .10 | 00E+21 | | J | | • |
| 7 | 10006+21 | .10 | 005+21 | | K | | |
| PRINT | LEVEL | | | | | | |
| STRESS | POINTS FOR | BRICKE | EGEN) EL | EMENTS | | | |
| POINT | Sı | SZ | 53 | | | | |
| 1 | -1.000 | -1.000 | -1.000 | | | | |
| 7 | 1.000 | -1.000 | -1.000 | | | | - |
| 3 | 1.000 | 1.000 | -1.000 | | | | |
| • | -1.000 | 1.000 | - 1. 000 | | | | |
| 5 | -1.000 | -1.000 | 1.700 | | | | |
| 6 | 1.000 | -1.000 | 1.000 | | | | |
| 7 | 1.000 | 1.000 | 1.000 | | | | |
| | -1.000 | 1.000 | 1.000 | | | - | - |
| • | 0.000 | | 0.000 | | | | |
| STRESS | POINTS FOR | PRISP E | LEMENTS | | | | |
| POINT | 51 | 52 | \$3 | 54 | | | |
| 1 | 1.000 | 0.000 | 0.000 | -1.000 | | | |
| 2 | C.000 | 1.000 | 0. 900 | -1.000 | | | |
| 3 | 0.000 | 0.000 | 1.000 | -1.000 | | | |
| • | 14000 | 6.400 | 1 | 1.000 | | | |
| 5 | 0.000 | 1.000 | 0. 000 | 1.000 | | | |
| | 0.000 | 0.000 | 1.000 | 1.000 | - | | |
| , | .333 | . 333 | . 333 | 0.000 | | | |
| STRESS | POINTS FOR | MEDGE E | LEMENTS | | | | |
| POINT | Si | 52 | 53 | | | | |
| 1 | .050 | | -1.100 | | | | |
| 2 | 1.000 | | -1. 900 | | | | |
| 3 | 1.000 | 1.000 | -1.000 | | | | |
| | -050 | 0.000 | 1.000 | | | | |
| 5 | 1.000 | 0.000 | 1.000 | | | | |
| • | 1.000 | 1.000 | 1. 9 00 | | | | |
| , | .667 | .500 | 9.000 | | | | |
| STRESS | POINTS FOR | TETER E | LEMENTS | | | | |
| POINT | Sı | 52 | 53 | 54 | | | |
| 1 | 1.000 | 6.000 | 0. 000 | 0.000 | | | |
| | 0.00(| 1.000 | 7. 0 60 | 0.000 | | | |
| 3 | 0.000 | C. #20 | 1.000 | 0.000 | | | |
| 4 | 0.000 | 4.400 | 9. 000 | 1.000 | | | |
| | 1850 | 1650 | | 1250 | | | |

| - | - | ~ | 5 | | | | | | | | | | | |
|-------|-----|------------|---------------------------------|--------------|--------------|----------|---------------|-------------|-----------|---------|------------|-----------|-----------|------|
| - | - | • | .15 | 15196-01 | . 3898E-09 | | 2204E-11 | .11C6E+0C | E+00 | | | | | |
| • | - | • | * | 9539E-02 | 1042E-05 | | 19366-01 | 14 375 + 01 | £ . 01 | | | | | |
| m | m | • | . 92 | 9279E-02 | .2137E-02 | | 1511E-01 | .9537E-01 | E-01 | | | | | |
| - | • | • | 41. | 147 36-01 | .3947E-02 | | 2136E-01 | .1 359E+01 | E+01 | | | | | |
| - | - | 8 | .91 | 9151E-12 | 1025E-CB | | 181CE-01 | .15CSE+01 | E+01 | | | | | |
| n | - | 2 | 65. | .595 EE-02 | 2135E-08 | | 1171E-61 | .2160E+00 | E+00 | | | | | |
| | - | r | 99. | .6460F-02 | . 15185-02 | | 1195E-01 | .2179E+00 | E+00 | | | | | |
| * | • | 4. | 36. | 9848E-02 | . 3906E - 02 | | 17566-01 | 12586+01 | E+01 | | | | | - |
| 2 | - | • | .121 | .1265E-61 | 6907E-09 | | 1849E-01 | | | | | | | |
| | 2 | • | 76. | 9414E-02 | .1196E-02 | | 1518E-01 | | | | | | | |
| 2 | - | - | .11. | 117 65-01 | . 29165-02 | | 1815F-01 | | | | | | | |
| | ~ | - | 116 | 14986-01 | 2056-02 | | 2172F-01 | | | | | | | |
| • | | • | 111 | 11.62E-01 | 6569E-09 | | 2023E-01 | | | | | | | |
| - | | • | .75 | 75176-62 | 1976 88 | | 16566-61 | | | | | | | |
| . ~ | | | .781 | 78895-02 | 2431F-02 | | 1 TO OF - 0.1 | | | | | | | |
| | | | | | 10001 | | | | | | | | | |
| - | | • • | 1: | 11/65-01 | 20-12696 | | -119996-01 | | | | | | | |
| ~ | - | • | 5. | 1336E-02 | 1849E-08 | | 1467E-01 | | | | | | | |
| 2 | ~ | 5 | 99. | 662 EE-82 | . 9415E-83 | | 131 3E-61 | | | | | | | |
| 2 | • | ď | .67. | £721E-02 | .2720E-02 | | 1466E-01 | | | | | | | |
| * | 41 | • | 16. | 915 BE -02 | . 2014E-02 | | 178 3E-01 | - | | | | | | - |
| STRES | SES | OR 88. | STRESSES FOR BRICKH ELEMENT NG. | | 1 SATFRIAL . | | | | | | | | | |
| TATOO | | , | | | C7544 | CTCMAY | 615447 | ****** | ****** | | | - | | |
| | | | | , | EPSX | FPSY | EPS Z | GAMMAXY | SAMMAYZ | CAMMA? | FPSI | FPS | FPSI | |
| + | 5 | . 34E+8e | | **E+ | • | .99€+ | *67E+83 | 146+82 | .215+09 | 745+82 | 906.03 | . 6-96-9- | | |
| | | | | | • | .23E-01 | 26E-02 | 22E-02 | .346-02 | .12E-01 | . 236-61 | 765-03 | 20E-01 | |
| 2 | • | . 1 3E +01 | | . 46E+00 | • | 98E+04 | 91E+04 | 68E+80 | 65E+00 | .61E+02 | 90E+B4 | 90E+ B4 | 93E+84 | |
| | | | | | • | .87E-02 | . 195-02 | 11E-03 | 10E-03 | .96E-12 | . 87E-82 | .34E-82 | 13E-81 | 22. |
| • | • | 136 +01 | .26E+88 | . * EE + 0 3 | | . 69E+83 | .71E+03 | - 486+82 | . 54E+82 | .72E+02 | . 755 + 68 | .68E+83 | | - |
| | , | 40000 | | . 46644 | | 40.500 | 100 | 105.00 | 20000 | | 10000 | 7 | 135 | |
| | | | | | • | 18E-01 | 535-03 | 16F-01 | 49F-02 | 725-12 | 216-01 | 786-81 | 106-01 | |
| • | | . 12E +01 | | . 85E+00 | | .97E+04 | 90+146 | 146+02 | . 35 E+82 | 145+83 | . 97E+04 | 455+06 | - 35 - 06 | |
| | | | | | • | .17E-01 | 67E-02 | 22E-02 | . 55E-02 | .21E-01 | . 17E-31 | .12E-12 | 21E-01 | |
| 9 | | .15E+01 | | . 85E+00 | 1 .13E+04 | .15E+84 | . 145 + 84 | . 42E+82 | 11E+03 | .94E+82 | . 15E+04 | .146+04 | . 126+04 | 11 |
| | | | | | • | .72E-02 | 51E-03 | .67E-02 | 17E-01 | .15E-01 | . 135-61 | .14E-82 | 15E-B1 | .27 |
| 1 | | * 15E+81 | *28E+98 | ***** | | *146+84 | **** | -1646+92 | . 126+43 | .306+01 | 11561 | *145+64 | . 125. | 4 |
| | | | | | | .17E-03 | 38E-82 | 10 E-01 | .196-01 | .47E-03 | . 116-11 | .34E-02 | 12E-81 | . 23 |
| • | • | . 116+31 | .21E+00 | . 85E+0 0 | • | 7 8E+04 | 80E+04 | 13E+03 | .12E+03 | .115+03 | 77E+84 | 79E+14 | 83E+ B4 | .3 |
| • | | | | | • | .15E-01 | .375-03 | 21E-01 | .186-01 | .186-01 | . 205-01 | -256-02 | 28E-11 | : |
| • | • | . 12E+01 | .1 2E+00 | · 66E+00 | | . 80E+83 | .62E+83 | 40E+02 | . 36E+82 | .65E+02 | . 616+03 | .65E+03 | .47E+03 | . 17 |
| | | | | | 11E-01 | .13E-01 | 13E-02 | 63E-02 | . 56 E-02 | .10E-01 | 1135-01 | .826-03 | 14E-01 | .27 |
| | | | | | | | | | | | | | | |

| -1195E-01 -1595E-01 -2799E-01 -2799E | | | | | | | | | | | | | |
|--|--------------|---------------|-----------|------------|-------------|-----------|----------|-------------|----------|----------|---------------------------|---------|------|
| 15. 15. 15. 15. 15. 15. 15. 15. 15. 15. | | 5 | 15 0E-02 | 1026E- | | 10106-01 | .1505 | E+01 | | | | | |
| 2 4518E 02 -1758E 01 -1758 | 1 - 1 | 4. | 28-3956 | 2139E- | | 11716-81 | 1912. | 20.3 | | 1 | 1 | | |
| | | | \$ 60E-02 | .1518E- | | 1195E-01 | .2179 | E+ 00 | | | | | |
| 2 | | .6. | 24-36-52 | - 3408E - | | 1756E-01 | 1255 | 1111 | | | | | |
| | 1 | 15. | 196E-02 | -3674E- | | .1288E-01 | 3645 | E+01 | | | | | |
| 1115-121977E-122077E-112007E-112007E-112007E-1220777E-122077E-122077E-122077E-122077E-122077E- | 3 | | 2146-02 | 4505E- | | 77 80E-82 | 4643 | | | | | | |
| | | 7. | 882E-02 | -1813E- | | .8925E-02 | 2087 | 00 + 3. | | | | | |
| | 1 1 | 6. | 20-3648 | -30614. | - | 10-30421 | 2888 | 1143 | | | 1 | - | - |
| 2 | 2 1 | .7. | 336E-02 | 1849E- | | 1467E-01 | | | | | | | |
| 2 - 7741E - 0 - 1555E 01 - 1555E | 2 | 39. | 320E-02 | .9415E-1 | | 1313E-01 | | | | | | | |
| 2 - 718[E-09 - 1555E-01 - 1555E-01 - 1555E-01 - 1555E-01 - 1555E-01 - 1555E-02 - 1555E-03 - 1555E-02 - 1555E-0 | 2 | 19. | 7216-92 | -2720E- | | 1466E-01 | | | | | | | |
| 2 -7746 - 09 -1555 - 01 2 -3746 - 10 3 -976 - 10 - 1555 - 01 2 -3746 - 10 3 -976 - 10 - 1555 - 10 3 -3746 - 1 | . 2 | | 15 06-92 | . 2014E- | | 1763E-01 | | | | | | | |
| 2 - 14640P-051356E-011 | 1 | .7. | 174E-02 | 7181E-1 | | 1565E-01 | | | | | | | |
| 2 | 1 -6 | | 1556-12 | 1640E- | - | 20-306.16 | | | | | | | |
| 2 - 2766-021806-011806-011806-011806-02 | | .51 | 72 BE-02 | - 9091E- | | 998 2E-82 | | | | | | | |
| Z MATERIAL = 1 -276E-09 -0204E-01 -0204E-02 -1077E-01 -1 | | .7. | 2926-92 | .3994€- | | 1526E-C1 | | | | | | | |
| Z HATERIAL = 1 | 7 | A 16-02 | 27685- | | 1004F-81 | | | | | | | |
| Z HATERIAL = 1 Z HATERIAL = 1 Z HATERIAL = 1 Z SIGNAX SIGNAY SIGNAZ TAUYY TAUYZ TAUZX SIGNAZ SIGN | | | 766-02 | .8672E- | | 6284E-82 | | | | | | | |
| Z SZGMAX SIGMAY TAUYY TAUZX SIGMAL SI | | 7 | 37.0E-02 | -2816E- | | 10776-01 | | | | | | | |
| 2 MATERIAL = 1 PATERIAL = 1 | - 4 - 1 | 6. | - Chadle | -21112- | | 127721 | | | | | Parent 1 | | - |
| The column The | SINESSES FOR | SKILLAN ELEME | | THIERTHY. | • | | | | | | | | |
| 12E 0 095 | POINT | × | 2 | SIGHAN | SIGNAY | SIGHAZ | TAUXY | TAUYZ | TAUZK | STGHAL | SIGNA | STGHAS | = |
| 156 col | | | | EPSX | EPSY | 15.43 | CAMMAK Y | SAMMATZ | CAMMAZX | 1543 | 25.43 | EP 53 | 9 |
| .15E+01 005E+00 .13E+04 .19E+04 .48E+02 -11E+01 .28E+01 .13E+04 .13 | 121. 01 | | . 852+38 | 942+04 | 175-01 | . 67E-02 | 2043610 | 200266 | 216-01 | 475-04 | 125-02 | .936.04 | |
| . 156*01 .286*00 .486*01 .726*02 .516*02 .516*02 .176*01 .136*01 .136*01 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*02 .156*03 .156* | 11 .196 4 | .01 0. | .ASF+00 | 135+06 | 195+84 | 145 + 04 | .425+82 | 116+83 | 966.82 | 18. | 106.00 | 175.0 | • |
| .156401 .286400 .486400 .156404 .156404 .456402 .136403 .386402 .166404 .15640 | | | | 756-02 | .7 2E-02 | 51E-03 | .67E-02 | 17 E-01 | .156-01 | . 135-41 | .14E-02 | 15E-01 | |
| . 11E 01 . 21E 01 . 05E 01 . 15E 01 . 15E 01 . 15E 01 . 15E 01 . 17E 02 . 15E 01 . 17E 03 . 17E 04 . 1 | | | . 84 E+00 | . 15€+0+ | .14E+04 | .15=+04 | 64E+12 | .136+03 | .30E+02 | . 16E+04 | .15E+16 | .13E+04 | . 15 |
| .116.01 .216.00 .056.00 .7166.01 .776.03 .726.02 .126.01 .266.01 .256.02 .226.00 .256. | | | | .58E-02 | .19E-03 | . 665-02 | 10E-01 | . 20E-01 | .47E-02 | . 165-11 | .76E-12 | 92E-12 | |
| .156+01 0126+01 -126+01 -156-01 106-01 106-01 106-01 106-01 -236-09 | Ĺ | | . 856+98 | 82E+84 | 1 05 + 04 | | -136483 | .125.483 | . HE-63 | ** TTE | ** Tace Br | 83E+B4 | • |
| .196 ct 0. | 1 | | | 20E-01 | .15E-01 | . 37E-03 | 21E-01 | .186-01 | .18E-01 | . 20E-91 | .25E-12 | 28E-01 | • |
| 136-01 0. 126-01 -136-04 -136-04 -136-04 -136-04 -136-04 -136-01 -146-02 -146-01 -136-04 -136- | 14 .15€ | | .126+31 | 23E+05 | 23E+05 | 23E+05 | 26E+02 | .57 6+82 | .21E+83 | 23E+ 05 | 23E+ 89 | 23E+09 | ~ |
| .18E+01 012E+7118E+0424E+0518E+01 .25E+0325E+0329E+042 | | | | 95E-02 | .146-01 | 146-01 | 41E-02 | .906-02 | .335-01 | 19-341 | .46E-02 | 29E-01 | • |
| 176-01 356-06 126-01 116-06 116-06 116-06 1176-03 1176-03 116-06 1176- | 15 .18E | .01 | .12E+31 | 30E+04 | 29E+B4 | 30E - 00 | . 91E+80 | 11111 | .12E+83 | - 25 | ************************* | 31E+ 04 | • |
| .176-01 .376-00 .126-01 .1.56-04 .1.370-04 .1.370-05 .1.56-05 .1.56-01 .1.56-01 .1.56-01 .1.56-03 .1.56-01 .1.5 | | | | 70-30-0- | 7 - 30 - | 28-392- | . 146-13 | . 43E-83 | 10-302 · | 21-36 | 28-394 | 146-61 | • |
| .146.01 .246.00 .126.11 .166.05 .166.05 .106.05 .106.05 .176.01 .576.02 .166.05 .166.05 .166.05 .166.05 .166.05 .166.05 .166.05 .166.05 .166.05 .166.05 .166.05 .166.05 .166.05 .166.01 .276.0 | 16 .172 | | .126+31 | - 145-02 | 115-02 | 6.26.41. | 2000 | 175-03 | 204240 | 10.221 | .135.01 | 195 | |
| ************************************** | .7 | | 11961 | 465466 | 165406 | 165 486 | 20110 | 10-34 | 20171 | 100-100 | 20134 | 10.35 | • |
| . 156+61 .146+66 .106+31986+63986+03986+02 .616+02 .976+02796+03896+03116+04786-02786-03186-04 | 74. | | | 36E-82 | . 81E-02 | 365-02 | 16E-01 | 27 F-C1 | .89F-82 | . 28F-01 | 276-82 | 166-81 | |
| ************************************** | | | . 146641 | . 046 48 7 | A 2 E + B 3 | - 086+83 | | 6 6 4 5 4 5 | 075463 | 7064.07 | | | |
| | | | | SAF-02 | 70F-02 | A1F-B3 | 7AF-02 | 976-02 | 186-01 | 975-02 | SAF-02 | 116-01 | • |

DISPLACEMENTS FOR BRICKH ELEMENT NG. 2 MATERIAL = 1

| | | . 147 | | | | | | | | | | | |
|-------|-----------|---------------------------------|-------------|--------------|-----------|----------------|----------------|----------|---------------|------------|----------|----------|-------------|
| | • | . 141. | 14736-01 | . 3947E-C2 | | . 21 36E-C1 | .13595 + 0 | E • 01 | | | | | |
| | • | .141. | 20-36-26 | . 21376-02 | | .19116-01 | .99376-01 | 10-1 | | | | | |
| , | m | .141 | . 89766-02 | . 3978E-02 | • | 1510E-01 | 1203E+01 | E+01 | | | | | |
| 2 | - | .926 | .14116-01 | .7230E-02 | | 2051E-01 | .71165 + 00 | 200-3 | | | | | |
| | 5 | | . 924 CE-02 | . 3909E-E2 | | 1756E-C1 | 1258E+01 | E+01 | | | | | |
| 3 | • | 9,9. | .64666-12 | .1518E-02 | • | 1195E-01 | .21796 + 00 | 00+3 | | | | | |
| 3 | u. | .716 | .7161E-02 | . 36426-02 | | 1303E-01 | .2526€ + 00 | E+ 00 | | | | | |
| • | • | . ** | . 4296-02 | .7 339E-02 | | 1701E-01 | . \$ 200E + 00 | 200.3 | | | | | |
| ~ | • | .117 | . 117 6E-01 | . 2914E-02 | | 1915E- 61 | | | | | | | |
| 3 | • | .913 | .9133E-02 | . 3095E-C2 | | 1508E-01 | | | | | | | |
| 2 5 | m | .112 | .1124F-01 | . 5349E-02 | | 1780E-01 | | | | | | | |
| , | • | .144 | . 14446 -01 | .5671E-02 | | 2096E-01 | | | | | | | |
| 1 3 | , | 1117 | .1172F-01 | . 3892E-02 | | 1959E-11 | | | | | | | |
| | | .700 | .788 9E-62 | . 2431E-62 | | 130eE-01 | | | | | | | |
| | 1 | 264. | 79246-02 | 3731E-02 | | 16116-01 | | | | | | | |
| 2 | , | 4116 | 116 AF - 81 | .7216F-02 | | 1 AA 7 F - B 1 | | | | | | | |
| | u | 672 | 67246-03 | 27205-02 | | 14665-01 | | | | | | | |
| | · u | 129 | 67125-62 | 22005-02 | | 10001 | | | | | | | |
| | | 123 | 927 25-02 | Store S | | 10.36.01 | | | | | | | |
| | | 200 | 30 33 130 | 30-30476 | | 10.33161. | | | | | | | |
| ESSES | FOR 301 | STRESSES FOR SPICKH ELEMENT NO. | | T MATERIAL . | - | | | | | | | | |
| | | | | | | | | | | | | | |
| POINT | • | | 2 | SIGHAN | SIGHAY | SIGHAZ | CAMMAXY | TAUYZ | TAUZK | STGMAI | SIGME | SIGNA3 | CANNANA |
| | . 926 +00 | ·106+00 | .466+9 | | *995* | ****** | 10E+03 | · 63E+02 | ** 5E+02 | . 895 | .865+8+ | .045+0. | . 295 +0 3 |
| | . 25.40 | 265400 | ******* | 1,105-61 | 105-01 | 745.03 | 105-01 | 20-366- | 735-02 | 755.01 | -7 BE-83 | -196 | |
| | | | | 1 DE-61 | .70E-02 | . 85E-02 | 76E-02 | . BEE-02 | 116-01 | 126-61 | -68F-82 | 186-01 | 266-61 |
| . 12 | . 12E +01 | .51E+0G | .465+00 | 77 E+C4 | 76E+04 | 76E+84 | 79E+02 | . 30E+82 | .516+02 | 75E+C4 | 76E+B4 | 785.0 | . 12E +0 3 |
| | | | | 87E-02 | .37E-02 | .28E-02 | 13E-01 | .47E-02 | .81E-82 | . 655-02 | -40E-02 | 13E-01 | . 196-01 |
| | . 97E oft | .366+00 | .465+00 | 35+04 | *64394 | **** | 165+83 | . 895+82 | .615+81 | | .492.01 | *** | . 246 . 8 |
| 23 | 116+01 | .21F+8G | .ASF+00 | A 2 F + 8 L | 7 AF+84 | 484 +84 | 10-307- | 10-341 | . 4 1 5 4 8 4 | 1754.04 | 20-1/2 | 10-16-01 | |
| | | | | 20E-C1 | .15E-01 | .37E-03 | 21E-01 | 196-81 | 105-01 | . 28E-01 | 25E-02 | 28E-81 | - FAE - 0.1 |
| . 42 | . 15E+01 | .28E+60 | . 845+ 93 | . 14E+84 | .146+04 | .135 +04 | 27E+12 | .70E+02 | .155+02 | . 16E+04 | .166+84 | . 13E+0 | . BBE +82 |
| | | | | .45E-02 | 496-03 | 41E-02 | 43E-02 | .11E-01 | .24E-02. | . 54E-02 | .30E-02 | 85E- 82 | .146-11 |
| * | 136+91 | .5 BE +88 | . B4E+ 88 | . 15€+B* | *17E+84 | ·16E+84 | BBE+82 | 36 E+B2 | .97£+B2 | . 19E+64 | *166+64 | .146+4 | .166 +83 |
| | | | | £ 1E-C2 | . 8 35-02 | .10E-02 | 13E-01 | 57E-02 | .15E-81 | . 13E-C1 | .16E-62 | 12E-01 | . 256-01 |
| . 92 | 99€+96 | .35E+60 | . 84E+30 | .32E+04 | .33E+04 | 40+34E · | 14E+03 | .14E+03 | 18E+02 | . 355 + 04 | .33E+64 | .31E+04 | . 22E +0 3 |
| | | | | E 4E-02 | .38E-02 | . 91E-12 | 23E-01 | . 22E-01 | 29E-02 | . 20E-01 | .85E-03 | 15E-B1 | . 356 - 01 |
| . 12 | . 12E +01 | .34E+00 | .66E+00 | . 4 25+83 | .635+83 | . 595 + 83 | 76E+02 | .54E+02 | .57£+02 | . 67E+ 88 | .60E+03 | .375+03 | - |

| | | • | 5 | , | | | r | | | | | |
|--------|-----------|---------------------------------|--------------|--------------|----------|------------|--------------|-----------|-----------|-----------|---------|-------------|
| - | 1 3 | \$6. | 95396-02 | 1042E-08 | | .1530E-C1 | 14375+01 | 101 | | | | |
| • | * | | . ess ce-e 2 | .36165-09 | | 9979E-02 | .18265 • 01 | 10. | | | | |
| | 2 | ₹9. | .6298E-02 | .1348E-02 | • | 9613E-02 | .2 491E + 00 | • • • • | | | | |
| - | 3 | 26. | 9279E-02 | .2137E-02 | • | 15116-01 | .9537E-81 | 10-3 | | | | |
| - | 1 | 65. | 595 6E-02 | 2135E-C8 | | 1171E-91 | .2160E+00 | 00+3 | | | | |
| | | * | . 4497E-02 | 1097E-08 | | 7208E-82 | .7170E-01 | 10-3 | | | | |
| | 5 | 14. | 4761E-02 | . 8945E-03 | | 7363E-02 | 5364E+00 | 00+3 | | | | |
| | | \$. | 6460E-02 | . 19186-02 | | 11996-11 | 00.36412 | 00. | | | | |
| | 1 3 | .76 | 7670E-02 | 6948E-09 | • | 1246E-01 | | | | | | |
| 0 | 2 3 | .63 | .635 BE-02 | .6653E-03 | | 9734E-02 | | | | | | |
| • | 3 3 | .7. | 74796-02 | .1615E-02 | | 1227E-01 | | | | | | |
| • | 2 3 | 16. | 9414E-02 | .1106E-02 | | 1518E-01 | | | | | | |
| - | , | .75 | .7517E-02 | 1936E-08 | | 1355E-01 | | | | | | |
| | + | 669 | 5356E-02 | 7236E-09 | | 8521E-02 | | | | | | |
| • | * | 15. | 5461E-02 | .1077E-02 | | 8444E-02 | | | | | | |
| - | * | .76 | .7889E-02 | .24315-02 | | 1300E-01 | | | | | | |
| | 1 5 | 95. | 5010E-02 | 1885E-08 | | 9225E-02 | | | | | | |
| • | 2 | 94. | . 4607E-82 | . 38556-63 | | 7195E- 02 | | | | | | |
| | 5 | 54. | 4961E-02 | .1790E-02 | • | 1029E-01 | | | | | | |
| | | \$ | .662 eE-02 | .94156-03 | - | 1313E-01 | | | | | | - |
| TRESSE | S FOR B | STRESSES FOR BRICKH ELEMENT NO. | | S HATFRIAL = | - | | | | | | | |
| PCINT | × | • | 2 | SIGNAX | SIGHAY | SIGHAZ | TAUXY | TAUY | TAUZX | STGMA1 | SIGME | SIGNAS |
| : | 4.36. | | | C 2544 | 00500 | 7545 | CARTAGO | - CEE | -6 45400 | 005 004 | | 0.36.04 |
| | .136.41 | | | 126-61 | .87E-02 | 195-12 | 116-03 | 106-03 | .96E-02 | . 67E-02 | .34E-02 | 13E-01 |
| 38 | .175+81 | 1 9. | . 46E+00 | .115+05 | .12E+05 | .125 +05 | 17E-01 | .27E+01 | .47E+12 | . 12E+05 | .12E+05 | .11E+ 85 |
| | | | | 48E-02 | .396-02 | . 44E -02 | 20E-05 | .43E-03 | .755-02 | . 57E-02 | .30E-02 | 62E-82 |
| 38 | . 17E +01 | 1 .34E+00 | .466+00 | .156+04 | . 16E+04 | 165+04 | 156+62 | 226-01 | .58E+82 | . 16E+C4 | .16E+04 | . 15E+10 |
| 1 | 135.00 | 4 .265+80 | ***** | 475+83 | 100000 | . 715 | | 54545 | .7 254-82 | . 765+83 | 696+63 | - |
| : | | | | 10E-01 | .70E-02 | .85E-02 | 76E-02 | . 65 E-02 | .116-01 | 10-321 | .60E-02 | 13E-01 |
| 14 | : 15E+01 | 1 0. | . 65E+ 00 | . 136+66 | .156+04 | . 145 + 04 | . 42E+82 | 11E+03 | .94E+82 | . 15E+04 | .146+84 | . 12E+ 04 |
| | | | | 75E-C2 | .725-02 | 51E-13 | .67E-02 | 17 E-01 | .15E-01 | 136-11 | .14E-02 | 15E-01 |
| 42 | .186+31 | 1 0. | .84E+90 | .4 36+63 | .486+03 | .485+83 | . 30 E+01 | . 61 E+00 | .52E+62 | . 51E+ FB | | . 40E+03 |
| | | | | 20E-02 | .17E-02 | . 20E -02 | .47E-03 | . 13E-03 | .82E-02 | . 46E-02 | .17E-02 | 45E-82 |
| 63 | .106+81 | 4 .356+86 | . 046+94 | 346+84 | - 34E+84 | 346- | 20+39a- | . 30E+02 | 1105+03 | - 33E+ 66 | 205-02 | 1 3 3 4 4 5 |
| | 1 | | | . 24E-12 | 1111-02 | 87E-83 | 12E-02 | - 50E-02 | 11/2-01 | 30-36- | 20-3620 | 2000 |
| \$ | . 15E+01 | 1 .28 6+00 | . 645+00 | . 12E+0+ | .14E+84 | .145+84 | 32E+0 Z | 20+E+05 | .55E+00 | . 152+14 | .13E+14 | .12E+ |
| 97 | 166 401 | 166400 | .665+00 | 115-01 | 20-10- | 565 + 83 | 22F+02 | 136+02 | .75E+02 | . 64E+03 | .59E+83 | . 42E+03 |
| | . 301 | | | | | | | | | | | |

| ***** | | 295. 244. | | | | | | | | | | | |
|------------|-------------|---|-------------|--------------|-------------|------------|-------------------------------------|-----------|--------------------------------|------------|--|---------|-------------|
| **** | | 674. | 5956E-02 | 2135E-08 | | .1171E-01 | .2160E+00 | 6 . 10 | | | | | |
| w 20 ca ca | ***** | 874. | 21-3/649 | 1897E-08 | | 7288E-12 | . 7170E-81 | 111-3 | | | | | |
| m m m m | **** | | 4781E-02 | . 8945E-03 | | 7363E-02 | 5364E+00 | E • 80 | | | | | |
| m m m | | 949. | 21-389 19 | . 1918E-02 | | 1195E-01 | .21796 + 88 | 6 . 00 | | | | | |
| • • | | 124. | 4214E-02 | 4505E-09 | | 7780E-02 | 4643E+00 | 00 + 3 | | | | | |
| • | 20 | 445. | 344 85-02 | .2910E-09 | | 9016E-02 | .1007E+00 | | | | | | |
| | 1 | .389 | 3895E-82 | .79386-63 | | 5469E-02 | . 8694E+88 | | | | | | |
| - | | 984. | 28-32884 | .18135-02 | | 8929E-02 | 20 87E + 80 | 00.43 | | - | the residence of the same of t | | |
| | 1 | .501 | .5010E-02 | 1885E-08 | | 9225E-02 | | | | | | | |
| • | 2 | 094. | . 4807E-02 | . 3855E-03 | | 71958-02 | | | | | | | |
| | 5 . | 964. | 4961E-02 | .179GE-02 | | 10 29E- 01 | | | | | | | |
| • | 5 2 | 299. | .662 BE-12 | .9415E-03 | | 13136-01 | | | | | | | |
| - | 1 6 | 504. | .4855E-02 | 1640E-08 | | 97 90E-02 | | | | | | | |
| | 1 | .386 | 38625-02 | 7589E-09 | | . 60386-02 | The second law or other Persons and | | of the same of the same of the | | - | - | - |
| • | 3 | 524. | .425 9E-02 | . 8000E-03 | | 6372E-02 | | | | | | | |
| - | 9 | 578. | . 972 BE-82 | . 9091E-03 | | 998 26-02 | | | | | | | |
| | 1 1 | .371 | 37176-02 | 2622E-09 | | 6105E-02 | | | | | | | |
| | | .36. | 36196-62 | . PA22F-03 | • | 5122E-02 | | | | | | | |
| | | 154. | 4380E-02 | .1138E-02 | | 7157E-02 | | | | | | | |
| TRES | SES FOR SR | STRESSES FOR BRICKH ELEMENT NO. | | 6 MATERIAL = | | | | | | | | | |
| POINT | * | | 2 | SIGHAK | SIGHAY | SIGHAZ | TAUKY | TAUYZ | TAUZK | STGMAL | SIGME | STGRA3 | TAUMAX |
| | | | | EPSX | EPSY | 2543 | CAMMAXY | SAMMAYZ | CAMMAZX | EPSI | EPSZ | EPSS | SAMMAN X |
| : | .196 +01 | | . 895. 33 | . 135.04 | 725-02 | 10-212 | 20+325 | 176-01 | 204386 | 135.00 | 146-62 | 10.221 | |
| 14 | . 186 + 01 | | . 84 5+00 | 436+63 | | . 485 + 83 | . 306+01 | . 81.6+08 | .926+02 | .516+03 | . 6.8 6+0.3 | | . 505 + 0.2 |
| | | | | 20E-62 | .17E-02 | . 20E-02 | .47E-03 | . 13E-03 | .62E-02 | . 46E-02 | .17E-02 | 45E-82 | . 926 - 02 |
| ; | . 1 8E + 31 | . 35E+00 | . 84 E+00 | 34E+84 | 34E+B4 | 34E+04 | 46E+02 | .30E+02 | .10E+03 | -, 33E+84 | 34 E+ B4 | 35E+ B | . 126 + 0 3 |
| | | | | .24E-02 | .11E-02 | • | 72E-02 | .68 E-02 | 1176-01 | . 93E-02 | 28-96- | 96E- BZ | . 19E-01 |
| 2 | . 196+01 | 00.382. | . 845+00 | .125.04 | .145.04 | | 316+82 | . 716+02 | 284392 | . 186 . 84 | . 146+14 | .125.00 | .treons |
| - | | | | 115-01 | . 46E-02 | .11E-01 | 495-02 | . 11E-01 | .43E-02 | 146-81 | -21E-02 | 126-01 | 10-392 |
| 20 | .152 +01 | : | .162.01 | ******* | *D. 26.7 *- | 305 - 00 | 20.216 | 1043/30 | | | | - 31E - | |
| | 205.401 | | | 20-14-0- | 20-104 | 20- 302 | 1166-03 | 20-10-0 | 10-102 | 796-02 | 20E-12 | 10 11 | . 20E-01 |
| 21 | | : | 104371 | | | 166-03 | . 626-07 | 146-67 | 616-02 | 146-00 | 7.00 | 176.00 | |
| | | *************************************** | 195801 | 646.00 | | | | 200.00 | | | | | |
| 70 | 17. | | | 386-02 | 30E-02 | 11E-03 | 17E-02 | .32E-02 | . 12E-01 | 475-02 | .20E-12 | 846-82 | 135-01 |
| 53 | . 17E+01 | .30€+00 | .12E+01 | 14 E+04 | 1 3E+04 | 146+04 | 396+02 | .116+03 | .67E+02 | 125.00 | 136+84 | 156.0 | . 145 +83 |
| | | | | 41E-62 | .31E-02 | 52E-82 | 61E-02 | . 17E -01 | .11E-01 | . BE-12 | 45E-13 | 14E-B1 | . 23E-01 |
| 24 | . 17E +01 | . 17E+0C | . 10E+01 | 155+63 | DEF +B 7 | SECART | - 46548 | 275.00 | 035403 | 200.00 | 365.03 | | |
| | | | | . 175 | 6017630 | | *** | 00.2170 | . 735 . 45 | . 365 + 63 | | 70.2 | 397. |

| - 1235 - 01 - 2376 - 01 - 2376 - 01 - 2376 - 00 - 2376 - 00 - 2376 - 00 - 2376 - 00 - 2376 - 00 - 2376 - 00 - 2376 - 00 - 246 - 02 - 256 - 02 - |
|--|
|--|

| 100 CC - 0 C | AF-0210-26-01 | - 73835-02 | 8244E-02 | 1303E-E1 | 6925E-02 | 9469E-02 | 6878E-02 | 39E-021052E-011080E+01 | | 27E-027713E-02 | | | | | | | | 20 - 40 M OF - 0 C | | SIGHAY SIGHAZ TAUXY TAUYZ TAUZK SIGHAI SIGHAE S | NOTE TARES ARETES TAREERS TOTAL TOTAL | .39E-02 .11E-01 .96E-03 | 34E+84 34E+84 46E+82 .38E+82 .18E+83 33E+6434E+84 | .11E-0287E-0372E-02 .60E-02 .17E-01 .93E-02 .29E-02 - | ************************************** | . 170-04 . 106-04 005-02 35-02 . 97-06 . 152-04 . 162-04 | .63E-62 .10E-8213E-0157E-62 .15E-01 .13E-01 .16E-02 | 13E+0414E+0439E+02 .11E+03 .67E+0212E+0413E+04 | .315-02525-02615-02 .176-01 .116-01 .066-02456-03 - | 305-00 -115-01 -175-00 -305-00 -1305-01 -175-00 -1305-01 | TOTAL TOTAL TOTAL ASSESSED TO THE TOTAL TO | .56E-02 .96E-0348E-02 .04E-02 .13E-01 .82E-02 .34E-02 - | 68E+8468E+8443E+82 .53E+82 .57E+8267E+8468E+94 | |
|--|---------------|------------|----------|----------|----------|----------|---------------------|------------------------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|---|---|-------------------------|---|---|--|--|---|--|---|--|--|---|--|---|
| 2 2525 6 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | | | | • | 1029E-01 | 7713E-02 | 1074E-C1 | 11546-01 | 9982E-02 | 63725-02 | 7544E-82 | 1187E-01 | 71576-02 | 89596-02 | 9783€-02 | SIGNAZ | 9 7543 | .116-01 | 346+84 | 87E-03 | 196-02 | .100.00 | . 10E-02 | 146 + 04 | 525-02 | 116-03 | . 206 . 004 | .965-03 | 68E+84 | - |
| | | - | • | • | • | • | .4763E-02 .2505E-02 | - 18149E-02 | | | | | • | • | • | • | • | • | | | *************************************** | - 646+00 -126+04 | .64E+1034E+64 - | .24E-02 | | . 84 2. 00 . 192.54 | £ 1E-C2 | .12E+01 14E+64 - | 415-02 | - 345-02 | . 286.68 | 55E-02 | -126+0169E+0+ - | Ī |

ELENENT SUMMARY PEPOPT

| 99991111 | רבשבא | | NO. | NO. | 1 1 | ELEAENT | ~ | NO. | MO. STRESS | - | ELEMENT C | | MO. | STRESS |
|--|-------|-------|---------------|--------------|--------|----------|---|-----|------------|---|-----------|----|-----|-----------|
| משובער שחשב | a a | - | | | | | | | | | | | | |
| SIGNA MAX 1 1 | - | | 11 | .160E+05 | - | m | | 32 | .160€+05 | ~ | - | *> | 38 | 11.66+05 |
| SIGNA MIN 1 | | 41 | 16. | 234E+C5 | | - | | 37 | 926E+04 | - | - | * | 2 | 326E+ 84 |
| TAU MAX 1 | - | - | • | .3C3E+03 | - | | 5 | 28 | . 303E+03 | - | - | 10 | 13 | .3035+03 |
| EPS 4AX 1 | - | • | | .231E-01 | - | - | • | | .2005-01 | - | m | • | 19 | .208E-81 |
| EPS MIN 1 | - | 5 | * | 292E-01 | | - | | 13 | 2765-01 | 1 | - | | • | 276E-01 |
| GAMMA MAX 1 | - | w | 13 | .4786-01 | | - | | • | .4785-01 | - | ~ | | 58 | .47 05-01 |
| TIME IN POST | | 9110 | 1.116 SECONDS | | | | | | | | | | | |
| MAXIMUM NUMBER OF COARSE GRID ELEMENTS FOSSIBLE = 16 | 3E G | 13 OE | EMENTS F | -09319LE = 1 | | | | | | | | | | |

| 0 2 00 | 00+3 | 364 | E+13 | 60+3 | 00+3 | 00+3 | 60+5 | - | 600 | 6+00 | | 7-C00PD | . 4635+88 | . 4635+00 | . 565 E +00 | . 564E+08 | . 563F+00 | . 564E+00 | . 663F +B | . 661F + ec | . 661F+00 | . 663F+0C |
|--------------|-----------|--|----------|----------|-----------|-----------|----------|----------|----------|----------|---|---------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|
| 0-2 | . 463€+0 | . 463 | . 664 | . 66.0 | . 657 | .6606 | . 852 | . 047 | . 847 | . 852 | | COORD | 85E+88 | 64E-01 | • | | 17E+00 | 83E-01 | | 21E-01 | 13E+00 | 34E-01 |
| V-COORD | . 221E+00 | . 924E-01 | | | . 270F+80 | . 198E+00 | | ***** | .247E+00 | .116E+00 | | | - | _ | _ | _ | | | | | | |
| X-C00R0 | 1116+61 | 935E+00 | 106E+01 | 1615+01 | 138E+01 | 102E+01 | 1365+81 | 150E+61 | 129E+01 | 1176+01 | | x-000 | 3 .1836 | 3 .938 € | 18+366. 4 | , 119E | 4 .117E4 | . 988E | 5 .t15E4 | 5 .123E4 | 5 .11364 | 5 .105E4 |
| | • | • | • | • | • | • | • | 1 | • | • | | | | | - | | | | - | _ | | |
| 1 7 % | 30302 | 30201 | 40101 | 40103 | 40303 | 40301 | 50162 | 50503 | 50302 | 20201 | | 1 | | | 1 | | | | - 5 | | | 1 2 |
| 300 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 1.0 | 19 | 50 | | MODE | # | 12 | 13 | 14 | 15 | 16 | 13 | 10 | 19 | 20 |
| Z-000R0 | .4636+00 | ************************************** | .463E+CO | .4635+68 | .854F+C0 | 00+36-9. | .845E+00 | 89+3696 | .4635+00 | .463E+00 | | Z-C0080 | · 463E+88 | . 463E+00 | . 463E+00 | . 463E+00 | . 664E+00 | .662E+00 | *660E+00 | . 662E+00 | . 463E+00 | . 463E+00 |
| Y-C00R0 | | | .2605+03 | .183E+01 | | • | .281E+03 | .2136+03 | | .131E+33 | | Y-COORD | | | .1125+0€ | .924 €-01 | | .0 | .1226+06 | . 174E+0C | | . 360E-01 |
| X-COORD | . 940E+0C | • | | | 0 | • | | / | | | | X-C03P0 | . 940E+98 | .113E+C1 | .113E+01 | .935E+CG | .106E+01 | .123E+01 | -122E+01 | .105E+01 | .103E+01 | .1136+01 |
| K J I X-COOR | 30101 | 36363 | 30313 | 30361 | 50101 | 50103 | 50308 | 50301 | 30102 | 36263 | _ | | | | 3 | | | | 1 | | | |
| MODE | - | | | | 5 | 9 | - | • | 6 | 10 | | | 1 | | 10 | | | | 1 | | | |

PEINT CLAMP, AND SI

| 3 | | |
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| 1 12 .1509E-01 | | |
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| 3 122109E-01 | | |
| 1 13 .13426-01 | | |
| 2 132163E-09 | | |
| 3 1321186-01 | | |
| 1 20 .1179E-G1 | | |
| 2 20 .1026 E-02 | | |
| 3 202006E-01 | | |
| 1 16 .1330E-01 | | |
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| 3 16 2886 E-81 | | |
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| 1 6 .402E-02 | | |
| 2 61608E-08 3 61668E-01 | | |
| 1 9 .13546-01 | | |
| 2 92341E-09 | | |
| 3 920226-01 | | |
| 1 14 .1065E-01 | | |
| 2 141230E-08 | | |
| 3 1417016-01 | | 12 - 7 - 1 |
| 1 17 .1055 E-01 | | |
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| 3 1718416-01 | | |
| 1 3 .11886-C1 | | |
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| INE GRID ELEMENT . 2 | | |
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| 1 + 11766-01 | | |
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| | ż | - | i | 6569E-09 | | | | - | | - | | | and the second second |
| | 3 | | i | 2023E-01 | | | | | | | | | |
| | 1 | | • | .9150E-02 | | | | | | | | | |
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| | 2 | | 5 | 1056E-09 | | | | | | | | | |
| | 3 | | 5 | 181GE-61 | | | | | | | | and the Contract of the same | - |
| | 1 | | | .91586-03 | | | | | | | | | |
| | 2 | | | .2014E-02 | | | | | | | | | |
| | 3 | | | 1703E-01 | | | | | | | | | |
| | 1 | 1 | 12 | .1179E-C1 | | | | | | | | | |
| | 2 | | 12 | .10262-02 | | 19800 | | | | - | | | |
| | 3 | | 2 | 2008E-C1 | | | | | | | | | |
| | 1 | | 3 | .1040E-01 | | | | | | | | | |
| | | | | | | | | | | | | | |
| | 2 | | 3 | 9262E-09 | | | | | | | | | |
| | 3 | | 13 | 1921E-C1 | | | | | | | | | |
| | 1 | | 20 | .9145E-02 | | | | | | | | | |
| | 2 | - 1 | | .1022E-02 | | | | - | - | | | | |
| | 3 | 1 | 20 | 1797E-01 | | | | | | | | | |
| | 1 | - 1 | 16 | . 10306-61 | | | | | | | | | |
| | 2 | | 16 | .2011E-62 | | | | | | | | | |
| | 3 | | 16 | 1891E-G1 | | | | | | | | | |
| | 1 | | 2 | .940ZE-0Z | | | | | | | | | |
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| | 5 | | 5 | 1600E-00 | | | | | | | | | |
| | 3 | | 5 | 1668E-61 | | | | | | | | | |
| | 1 | | 6 | .7336E-82 | | | | | | | | | |
| | 2 | | 6 | 1849E-08 | | | | | | | | | |
| | 3 | | 6 | 1467E-01 | | | | | | | | | |
| | 1 | | 9 | .1055E-C1 | | | | | | | | | |
| | • | | 9 | 1210E-te | | Land 1 | | | | | | | |
| | 3 | | 9 | 1841E-01 | | | | | | | | | |
| | | | 4 | .0297E-C2 | | | | | | | | | |
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| | 5 | | 14 | 1814E-08 | | | | | | | | | |
| | 3 | | 14 | -, 1570E-01 | | | | | | | | | |
| | 1 | | 17 | .8189E-02 | | | | | | | | | |
| | 5 | | 17 | 1505E-68 | | | | | organity of the party | (a) (4) | 4. 4. 1. 4. 1. 4. 1. 4. 1. 1. 1. 1. | | |
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| | 3 | | 7 | 15316-61 | | | | | | | | | |
| | 1 | | 18 | .7326E-02 | | | | | | | | | |
| | | | | | | | | | | | | | |
| | 5 | | 10 | .7709E-03 | | | | | | | | | |
| | 3 | | 16 | 15156-01 | | | | | | | | | |
| | 1 | | 19 | .8021E-62 | | | | | | | | | |
| | 2 | | 19 | .1748E-02 | | | | | | | | | |
| | 3 | | 19 | 1653E-01 | | | | | | | | | |
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| FINE | GRID | ELE | HE NT | . 3 | | | | | - | | | | |
| NODE | 1 | J | K | X-COORD | Y-COORD | Z-COORD | HODE | I | J | K | X-COORD | Y-COORD | Z-COORD |
| 1 | 1 | 3 | 3 | .935E+00 | .924E-01 | . 463E+00 | 11 | 5 | 5 | 3 | .105E+01 | . 505E+00 | . 463E+00 |
| 2 | 3 | 3 | 3 | .11 3E+01 | | . 463E+00 | 12 | i | | 3 | .929E+00 | .138E+00 | . 463F +00 |
| | | 5 | | | ·1125+00 | | 13 | | | 4 | | | . 564 E+00 |
| 3 | 3 | | 3 | .111E+G1 | · 221E+0C | . 463E+00 | | 1 | 3 | | .988E+C0 | .983E-01 | |
| 4 | 1 | 5 | 3 | .921E+00 | .183E+00 | .463E+00 | 14 | 3 | 3 | | .117E+01 | -117E+00 | . 563E+00 |
| 5 | 1 | 3 | 5 | . 105E+61 | .1.94E+00 | .662E+00 | 15 | - 3 | 5 | • | •115E+81 | ************************************** | . 562E+00 |
| 6 | 3 | 3 | 5 | .122E+01 | .1 22E+0C | .6600+00 | 16 | 1 | 5 | | .968E+00 | .191E+00 | .562F+00 |
| 7 | 3 | 5 | 5 | .120E+01 | .234E+FE | . 658E+00 | 17 | 5 | 3 | 5 | .113E+01 | . 113E+00 | . 661F+06 |
| | 1 | 5 | 5 | . 102E+C 1 | .198E+0C | .660E+00 | 18 | 3 | | 5 | .121 E+01 | .179E+00 | . 659F+00 |
| 9 | 2 | 3 | 3 | . 10 3E+0 1 | . 10 2E+0C | . 463E+00 | 19 | Š | 5 | 5 | -111E+01 | .216E+00 | . 659E+00 |
| 10 | 3 | 4 | 3 | .112E+01 | .167=+00 | . 46 3E+00 | 20 | 1 | | 5 | .103E+01 | .153E+00 | .661F+08 |
| 70 | 3 | • | 3 | .1126.01 | . 1015400 | . 46 36 4 00 | 20 | | • | , | .1035.01 | •1335.00 | .00100 |
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| | ADE | | NODE | VALUE | | | | | | | | | |
| | 1 | | 4 | .1473E-01 | | | | | | | | | |
| | 2 | | 4 | .3947E-02 | | | | | | | | | |
| | 3 | | 4 | 21 366-41 | | | | | | | | | |
| | 1 | | 1 | .1498E-C1 | | | | | | | | | |
| | 2 | | i | .2056E-C2 | | | | | | | | | |
| | | | | - 21776-01 | | | | | | | | | |
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| - | 1 | 5 | .1176E-C1 | | | | | | | | | |
| | 5 | 5 | .2017E-C2 | | | | | | | | | |
| | 3 | 5 | 1992E-01 | | | | | | | | | |
| | 1 | | .1172E-01 | | | | | | | | | |
| | 2 | | .3492E-02 | | | | | | | | | |
| | 3 | | 1959E-U1 | | | | | | | | | |
| 1 | 1 | 12 | .1486E-01 | | | | | | | | | |
| | ż | 12 | . 30 22 E-C2 | | | | | | | | | |
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| | 3 | 12 | 2155E-01 | | | | | | | | | |
| 1 | 1 | 13 | .1330E-01 | | | | | | - | The same and the same and | | |
| | 5 | 13 | . 56 35E-05 | | | | | | | | | |
| 1 | 3 | 13 | 2066E-01 | | | | | | | | | |
| | 1 | 20 | .1174E-G1 | | | | | | | | | |
| | 2 | 20 | . 2973E-02 | | | | | | | | | |
| | 3 | 28 | 1976E-G1 | | | | | | | | | |
| | 1 | 16 | .1316E-C1 | | | | | - | | | | |
| | 2 | 16 | .3911E-02 | | | | | | | | | |
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| | 2 | 16 | 2051E-01 | | | | | | | | | |
| | 1 | 3 | .1170E-01 | | | | | | | | | |
| | 2 | 3 | .2914E-02 | | | | | | | | | |
| | 3 | 3. | 1815E-01 | | | | | | | | | |
| | 1 | 7 | .9086E-02 | | | | - | | | | | A THE RESIDENCE OF THE SEC |
| | 2 | 7 | .3101E-02 | | | | | | | | | |
| | 3 | 7 | 1620E-01 | | | | | | | | | |
| | 1 | 11 | .1314E-C1 | | | | | | | | | |
| | ż | ii | .3399E-02 | | | | | | | | | |
| | 3 | 11 | 1973E-01 | | | | | | | | | |
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| | 1 | 19 | .10222-01 | | | | | - | | | | |
| | 5 | 19 | .3482E-02 | | | | | | | | | |
| | 3 | 19 | 1787E-01 | | | | | | | | | |
| | 1 | 15 | .1036E-01 | | | | | | | | | |
| | 2 | 15 | .30796-02 | | | | | | | | | |
| | 3 | 15 | 1712E-01 | | | | | | | | | |
| | 1 | 2 | .11888-01 | | CHEST COLUMN TWO IS NOT THE OWNER. | - | - | | - | | | |
| | 2 | 2 | .15178-02 | | | | | | | | | |
| | 3 | 2 | 18328-01 | | | | | | | | | |
| | i | 10 | .1179E-01 | | | | | | | | | |
| | | | | | | | | | | | | |
| | 5 | 10 | .2231E-C2 | | | | | | | | | |
| | 3 | 10 | 1823E-C1 | | | | | | | | | |
| | 1 | • | .13366-01 | | | | | | | | | |
| | 2 | 9 | .1771E-G2 | | | | | | | | | |
| | 3 | 9 | 19996-01 | | | | | | | | | |
| | | | | | | | | | | | | |
| FINE | GPIO | ELEMENT | | | | | | | | | | |
| NODE | 1 | JK | X-COORD | Y-COORD | Z-COORD | NODE | I | J | K | X-COORD | Y-COORD | Z-CODED |
| | i | 3 9 | .1096+01 | .1845+8t | .6622+00 | 11 | ż | • | • | .1112.01 | .2162+88 | . 6597+88 |
| 1 2 | 3 | 3 5 | .122E+61 | .122E+0C | .668E+00 | 12 | 1 | | 5 | .103E+01 | .153E+00 | . 661 F+80 |
| | | 5 5 | | .234E+00 | .658E+09 | 13 | 100 | - | | .111E+01 | | . 75 8E+80 |
| 3 | 3 | | . 126E+C 1 | | | | 1 | 3 | 6 | | . 110E+00 | |
| 4 | 1 | 5 5 | .102E+G1 | .198E+00 | .660E+00 | 14 | 3 | 3 | 6 | .128E+01 | .127E+00 | .756E+00 |
| 5 | 1 | 3 7 | .117E+01 | .1165+00 | . 85 2E+ 08 | 15 | 3 | 5 | 6 | .124E+01 | .241E+00 | . 754E+00 |
| 6 | 3 | 3 7 | .133E+01 | .1325+0C | . 849E+00 | 16 | 1 | 5 | 6 | .107E+01 | .206 E+86 | . 755E+88 |
| 7 | 3 | 5 7 | .129E+01 | .247E+90 | . 847E+88 | 17 | - 5 | 3 | 7 | .1255+01 | .124E+88 | . 850E+80 |
| | 1 | 5 7 | .113E+01 | .213E+00 | . 849E+00 | 18 | 3 | 4 | 7 | .132E+01 | .192E+00 | . 848E+00 |
| 9 | 2 | 3 5 | . 11 3E+0 1 | .113E+00 | . 561E+00 | 19 | 2 | 5 | 7 | .121E+81 | .230E+00 | . 848 F+88 |
| 10 | 3 | 4 5 | .121E+01 | . 179E+0C | .659E+00 | 20 | 1 | | 7 | .115E+01 | . 167E+00 | . 658F+80 |
| 10 | 3 | • 3 | .1515.01 | .1.30.00 | *4575 | | | • | | .1136401 | . 101 5.00 | . 0501 .00 |
| 007 | | | LOPE TYPE EC. | | | | | | | | | |
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| | TYPE | HODE | VALUE | | | | | | | | | |
| | 1 | 4 | .1172E-01 | | | | | | | | | |
| 1 | 5 | 4 | .3892E-G2 | | | | | | | | | |
| | 3 | 4 | 1959E-01 | | | | | | | | | |
| | 1 | 1 | .1176E-01 | | | | | | | | | |
| | • | | . 2017E-02 | | | | | | | | | |
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| | 3 | 1 | 1992E-01 | | | | | | | | | |
| | | 1 5 | 1992E-01 .9158E-02 | | | | | | | | | |

| | | 2 | • | 1783E- | | | | | | | | | |
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| | | 1 | : | .92406-0 | | | | | | | | | |
| | | 3 | : | 17566- | | | | | | | | | |
| | | 1 | 12 | .11746- | | | | | | | | | |
| | | ÷ - | 12 | .29738- | | | - | | | | | Part of the State of the St | |
| | | 3 | 12 | 1976E- | | | | | | | | | |
| | | 1 | 13 | .16306- | | | | | | | | | |
| | | 2 | 13 | -3011E- | | | | | | | | | |
| | | 3 | 13 | 1691 6- | 61 | | | | | | | 7.0 | |
| | | 1 | 50 | .9190€- | 0.5 | | | | | | | | |
| | | 2 | 50 | .2976 E- | | | | | | | | | |
| | | 3 | 50 | 1770E- | | | | | | | | | |
| | | 1 | 16 | .1041E- | | | | | | | | | |
| | | 2 | 16 | .3891E- | | | | | | | | | |
| | | 3 | 10 | 10016- | | | | | | | | | |
| | | 1 | 3 | .9086E- | | | | | | | | | |
| | | 3 | 3 | 16206- | | | | | | | | | |
| | | i | 3 | .67216- | | | | | | | | | |
| | | ż | 7 | .27206- | | | | | | | | | |
| | | • | | 1466E- | | | | | | | | | |
| | | 1 | 11 | -10226- | | | | | | | | | |
| | | 2 | 11 | .3402E- | | | | | | | | | |
| | | 3 | 11 | 1787E- | | | | | | | | | |
| | | 1 | 19 | . 76 98E- | | | | | | | | | |
| | | 2 | 19 | . 33166- | 02 | | | | | | | | |
| | | 9 | 19 | 1609E- | | | | | | | | | |
| | | 1 | 15 | .7672E- | | | | | | | | | |
| | | 5 | 15 | -35862 | | | | | | | | | |
| | | 3 | 15 | 1538E- | | | | | | | | | |
| | | 1 | | .722GE- | | | | | | | | | |
| | | 3 | 6 | 15316- | | | | | | | | | |
| | | i | 10 | .7018E- | | | | | | | | | |
| | | | 10 | .2131F- | | | | | | | | | |
| | | 3 | 18 | 15156- | | | | | | | | | |
| | | 1 | 17 | . 80 21E- | | | | | | | | | |
| | | 2 | 17 | . 1748E- | | | | | | | | | |
| | | 3 | 17 | 165 3E- | | | | | | | | | |
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| | | GPID | EL ENE NT | . 5 | | | | | | | | | |
| N | ODE | 1 | JK | X-COORD | Y- COORD | Z-COORD | NODE | 1 | J | K | X-COORD | Y-COORD | 1-00040 |
| | 1 | 3 | 1 3 | .1136+01 | 0. | . 463E+00 | 11 | • | 3 | 3 | 110+3221. | .121E+00 | . 463F+00 |
| | 5 | 5 | 1 3 | . 1326+61 | 6. | . 463E+00 | 12 | 3 | 2 | 3 | .113E+01 | .560E-01 | . 463E+00 |
| | 3 | 2 | 3 3 | .1326+01 | .1314+00 .1125+00 | . 463E+00 | 13 | 3 | 1 3 | 1 | .135E+01 | • | .562F+00 |
| | , | 3 | | .1236.01 | 0. | .662E+00 | 15 | , | | | .136E+01 | .135E+00 | . 562F +00 |
| | 6 | | | .1416+01 | 0. | .56CE+00 | 16 | 3 | 3 | | .117E+01 | .117E+00 | . 563E+0C |
| | 7 | | 3 5 | .140E+01 | .1 39E+0C | .658E+00 | 17 | | 1 | • | .135E+C1 | 0. | . 661F+00 |
| | | | 3 5 | .1225.01 | .122E+0C | .660E+00 | 18 | , | ż | 5 | .141E+01 | .708E-01 | . 6595+00 |
| | 9 | | 1 3 | .1226+01 | 0. | . 463E+00 | 19 | | 3 | | .1316+01 | . 131E+00 | . 65 96 +00 |
| | 10 | | 2 3 | . 132E + 61 | .556E-01 | . 463E+00 | 20 | 3 | 2 | 5 | .123E+81 | .621E-01 | . 661E+08 |
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| P | DINT | .CLA | IP. AND S | LOPE TYPE CC | | | | | | | | | |
| | 1 | ABE | NODE | VALUE | | | | | | | | | |
| | | 1 | 2 | . 9539E- | | | | | | | | | |
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| | | 3 | 5 | 153CE- | | | | | | | | | |
| | | 1 | 3 | .94141- | | | | | | | | | |
| | | 3 | 3 | -1106E- | | | | | | | | | |
| | | 1 | , | .79166- | | | | | | | | | |
| | | | , | .13258- | | | | | | | | | |
| | | 3 | , | 13916- | | | | | | | | | |
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| | 3 | | 1355E- | | | | | | | | | |
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| i tai ili da di ili | i | 15 | * 8634E-I | | | | | - | | | | |
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| | i | 10 | .77706- | | | | | | | | | |
| | ż | 18 | .69888-1 | | | | | | | | | |
| | 3 | 10 | 1389E- | | | | | | | | | |
| | | 10 | | | | | | | | | | |
| | 1 | 14 | .04716- | | | | | | | | | |
| | 5 | | 1576E- | | | | | | | | | |
| | 3 | 10 | 14436- | | | | | | | | | |
| | 1 | 1 | .1205E- | | | | | | | | | |
| | 3 | | 6807E-1 | | | | | | | | | |
| | 2 | 1 | 1 04 9E- | | | | | | | | | |
| | 1 | • | -950PE- | | | | | | | | | |
| | 3 | • | 1608E- | | | | | | | | | |
| | | 5 | 16686-6 | | | | | | | | | |
| | 1 | • | .1071E-0 | | | | | | | | | |
| | 2 | • | 49816-0 | 19 | | | | | | | Constitution to the Real Con- | |
| | 3 | 9 | 1685E-C | 01 | | | | | | | | |
| | 1 | 17 | . 83936-0 | 30 | | | | | | | | |
| | 2 | 17 | 1850E-C | 0.6 | | | | | | | | |
| | 3 | 17 | 15 06E-0 | 11 | | | | | | | | |
| | 1 | 13 | .1065 E-C | 11 | | | | | | | | |
| | 2 | 13 | 12306-6 | | | | | | | | | |
| | 3 | 13 | 1761E-C | | | | | | | | | |
| | 1 | • | .1186E-C | | | | | | | | | |
| | 2 | | .1517E-C | | | | | | | | | |
| | 3 | • | 1032F-C | | | | | | | | | |
| | 1 | 12 | .1197E-0 | | | | | | | | | |
| | 2 | 12 | .77368-0 | | | | | | | | raine see | |
| | 3 | 12 | 1841E-C | | | | | | | | | |
| | 1 | 11 | .1057E-0 | | | | | | | | | |
| | 2 | ii | .12966-0 | | | | | | | | | |
| | 3 | ii | 16726-0 | | | | | | | | | |
| | | •• | | •• | | | | | | | | |
| INE | | EL EME NT | | | | | | | | | | |
| HODE | I | JK | X-COORD | Y-COORD | Z-COORD | NODÉ | 1 | J | K | X-COORD | Y-COORD | |
| 1 | ; | 1 5 | .123E+C1 | 0. | . 66 2E + 00 | 11 | : | 3 | | | | t-coord |
| | | | | | | | | | 5 | .131 E+01 | .1316+00 | . 6595+00 |
| 3 | 5 | 3 5 | .141E+01 | 0. | .6606.00 | 12 | 3 | 5 | 5 | .123E+01 | .621E-01 | . 661 F+0C |
| | | | .140E+01 | .139E+0C | .658E+00 | 13 | 3 | 1 | 6 | .129E+01 | 1. | . 75 8F +00 |
| • | 3 | 3 5 | .1226+61 | *155E+00 | . F P D F + 00 | 14 | 3 | 1 | 6 | .146E+01 | 0. | . 755E+00 |
| • | 3 | 1 7 | . 1 367 + 0 1 | 0. | .8526+00 | 19 | , | 3 | | .1492+01 | .1442+88 | . 7542 - 00 |
| 6 | 5 | 1 7 | .151E+C1 | 0. | . 84 9E+00 | 16 | 3 | 3 | 7 | . 150E+61 | .127E+08 | . 756E+00 |
| 7 | 5 | 3 7 | . 150E+C 1 | . 148E+0C | .847E+00 | 17 | • | 1 | 7 | .143E+01 | 0. | . 050E+00 |
| | 3 | 3 7 | .133E+01 | . 132E+0C | . 8496+00 | 18 | , | 2 | 7 | .151E+01 | .760E-01 | . 848F +00 |
| 9 | | 1 5 | . 132E+01 | 0. | .661E+00 | 19 | | 3 | 7 | .142E+01 | .140E+00 | . 048E+00 |
| 10 | 5 | 2 5 | .141E+01 | . 708E-01 | . 6 5 9E+ 00 | 20 | 3 | 2 | 7 | .135E+81 | .681E-01 | . 850F+86 |
| | | | | | | | | | | | | |
| | | | OPE TYPE BC. | | | | | | | | | |
| 1 | YPE | NO DE | VALUE | | | | | | | | | |
| | 1 | 2 | .7517E-0 | | | | | | | | | |
| | 5 | 2 | 19366-0 | | | | | | | | | |
| | 3 | 2 | 1 355 E-C | 11 | | | | | | | | |
| | 1 | 3 | .79166-6 | | | | | | | | | |
| | 2 | 3 | .1325E-C | | | | | | | | | |
| | 3 | 3 | 1391E-0 | | | | | | | | | |
| | 1 | 7 | .6628E-C | 2 | | | | | | | | |
| | 2 | 7 | .9415E-0 | | | | | | | | | |
| | , | | 1 31 36-6 | | | | - | - | - | | | |
| | 1 | 6 | .5956E-C | | | | | | | | | |
| | 2 | 6 | 2135E-0 | | | | | | | | | |
| | | | | | | | | | | | | |

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7
X-COORD
                                                                                                                                                                                                                                                                                                                            X-COORD

1212601

112601

117601

136601

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115601

139601

129601
                                                                                                                                                                                                                                                                                                                                                                                                                                  Z-COORD
. 4637+08
. 4637+08
. 5637+08
. 5627+80
. 5611+08
. 5627+00
. 6587+00
. 6597+08
                                                                                                                                         Y-COORD

112E+00

131E+00

260E+00

221E+00

122E+00

139E+00

270E+00

121E+00

121E+00

121E+00
                                                                                                                                                                                           Z-COORD
.463E+00
.463E+00
.463E+00
.660E+00
.650E+00
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                                                                                                                                                                                                                                                                                                                                                                               Y-GOORD
.240E+00
.167E+00
.117E+00
.135E+00
.265E+00
.258E+00
.218E+00
.25E+00
.252E+00
.179E+00
                                                                                                                                                                                                                                                                                     15433553454
                                                                                      x-COORU

113E+01

132E+01

131E+01

111E+01

122E+01

140E+01

130E+01

120E+01
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| | | 4.0 | ****** | | | | | | | | | |
|------|-------|------------|-----------------------|------------|------------|------|----------------|---|---|----------|------------|-------------|
| | 2 | 10 | 15 14E-01 | | | | | | | | | |
| | 1 | 15 | . 45096-02 | | | | | | | | | |
| | 5 | 15 | .2435E-02 | | | | | | | | | |
| | 3 | 15 | 1392E-61 .7956E-02 | | | | | | | | | |
| | 1 | 18 | ·1905E-02 | | | | | | | | | |
| | 3 | 10 | 1361E-01 | | | | | | | | | |
| | i | 14 | . 8639E-82 | | | | | | | | | |
| | ż | 14 | .1291E-02 | | | | | | | | | |
| | 3 | | *.1448E*01 | | | | | | - | | | |
| | 1 | | ·1170E-01 | | | | | | | | | |
| | ż | • | .29146-02 | | | | | | | | | |
| | 3 | | 1815E-01 | | | | | | | | | |
| | 1 | | .9006 E-02 | | | | | | | | | |
| | 2 | | .3101E-02 | | | | | | | | | |
| | - 3 | | | | | | | | | | | |
| | 1 | 11 | . 1041E-01 | | | | | | | | | |
| | 5 | 11 | .2494E-02 | | | | | | | | | |
| | 3 | 11 | 1661E-01 | | | | | | | | | |
| | 1 | 16 | .1036E-01 | | | | | | | | | |
| | 2 | 16 | .3079E-02 | | | | | | | | | |
| | 3 | 16 | 17120-01 | | | | | | | | | |
| | 1 | 19 | .8308E-02 | | | | | | | | | |
| | 2 | 19 | .2751E-02 | | | | | | | | | |
| | 3 | 19 | 1457E-01 | | | | | | | | | |
| | 1 | 1 | .1100E-01 | | | | | | | | | |
| | 2 | 1 | .1517E-G2 | | | | | | | | | |
| | 1 | 12 | .1179E-01 | | | | | | | | | |
| | ž | 12 | .2231E-02 | | | | | | | | | |
| | 3 | 12 | 1823E-G1 | | | | | | | | | |
| | 1 | ., | .1057E-01 | | | | | | | | | |
| | ż | 9 | .1296E-02 | | | | | | | | | |
| | 3 | • | 16722-01 | | | | | | | | | |
| | GRIO | ELEMENT | | | | | | | | | | |
| NODE | | J K | X-COORD | Y-COORD | Z-COORD | NODE | 1 | J | | X-COORD | Y-COORD | 7-COORD |
| 1 | 3 | 3 3 | .122E+01 | .1225+00 | .660E+00 | 11 | | 5 | K | .129E+81 | .252E+00 | . 658E+81 |
| ż | 5 | 3 5 | .140E+01 | . 139E+06 | .658E+00 | 12 | 3 | - | 5 | .121E+01 | .179E+30 | . 659E+0 |
| 3 | , | , , | .1302+01 | .2704+00 | . 6572+80 | 13 | 3 | 3 | | .1282+01 | .1272+88 | . 7982 -0 |
| 4 | 3 | 5 5 | .120E+G1 | . 234 E+0C | .658E+00 | 14 | 5 | 3 | 6 | -145E+C1 | .144E+08 | . 754F+8 |
| 5 | 3 | 3 7 | . 133E+01 | . 132E+00 | . 849E+00 | 15 | 5 | 5 | 6 | .142E+01 | .276E+00 | . 752E+8 |
| 6 | 5 | 3 7 | .150E+01 | .1.48 E+00 | . 647E+08 | 16 | 3 | 5 | 6 | .124E+61 | . 241E+00 | . 754E+8 |
| 7 | 5 | 5 7 | .146E+01 | . 281E+00 | .845E+00 | 17 | | 3 | 7 | .142E+01 | . 148 E+88 | . 848E+8 |
| | 3 | 5 7 | .129E+01 | .2475+00 | .847E+00 | 18 | 5 | 4 | 7 | .148E+C1 | . 216E+46 | . 046E+8 |
| • | | 3 9 | .1312+81 | .1312+00 | . 8592+88 | 19 | - | | 7 | -1382+81 | 204 E+88 | |
| 10 | 5 | 4 5 | .139E+C1 | .206E+00 | .658E+88 | 20 | 3 | 4 | 7 | .132E+01 | .192E+00 | . M. BE + 0 |
| PCIN | T.CLA | HP. AND SL | OPE TYPE BC. | | | | | | | | | |
| | TYPE | NODE | VALUE | | | | | | | | | |
| | 1 | 2 | .7916E-02 | | | | | | | | | |
| | 2 | 2 | .1325E-02 | | 44 16 11-4 | | William Sancia | | - | | | |
| | 3 | 2 | 1391E-01 | | | | | | | | | |
| | 1 | 3 | .7889E-02 | | | | | | | | | |
| | 2 | 3 | .2431E-02 | | | | | | | | | |
| | 3 | 3 | 1300E-01 | | | | | | | | | |
| | 1 | 7 | .6460E-02 | | | | | | | | | |
| | 5 | | 15186-82 | | - | | - | - | | | | |
| | 3 | ! | 1195E-01 | | | | | | | | | |
| | 1 | 6 | .6628E-02 | | | | | | | | | |
| | 2 | 6 | .9415E-03 1313E-01 | | | | | | | | | |
| | 3 | - 10 | -,1313E-01 | | | | | | | | WARE THE | |
| | 2 | 10 | .1905E-C2 | | | | | | | | | |
| | 3 | 10 | 1361E-01 | | | | | | | | | |
| | | | | | | | | | | | | |

TIME IN REZONE 1.214 SECONOS TIME IN FORMER 3.772 SECONDS TIME IN PREFRONT = . 308 TOTAL NUMBER OF B.O.F.S . 276 0.0.F. IN FRONT = 112 MAXIMUM ACTIVE STORAGE = 8966 TOTAL HIGKMANE STORAGE = 224 BUFFER LENGTH = 18333 TIME IN FORWARD ELIMINATION = 7.580 NUMBER OF SECTORS (PRUS) - 201 TIME IN BACKSUBSTITUTION = .64 9 TIME IN ZIPP . 8.539 SECONDS

BL SCK OPTION

| | | | | 80 UN | 105 | | | |
|-----|------|------------|-----------|----------|--------|---|-----|-----|
| | | NIN | | MAX | | | HIN | MAX |
| | × | 1000E+21 | . 10 | 00E+21 | | 1 | | • |
| | ٧ | 1000E+21 | . 10 | 00E+21 | | J | | • |
| | Z | 16666+21 | . 10 | 80E+21 | | K | 9 | 0 |
| PRI | NT L | EVEL . 4 | | | | | | |
| STR | ESS | POINTS FOR | BR ICK (0 | EGENT EL | EMENTS | | | |
| PO | INT | Si | SZ | 53 | | | | |
| | 1 | -1.000 | -1.000 | -1.000 | | | | |
| | 2 | 1.808 | -1.000 | -1. 000 | | | | |
| | 3 | 1.000 | 1.000 | -1.000 | | | | |
| | | -1.000 | 1.000 | -1. 000 | | | | |
| | 5 | -1.00C | -1.000 | 1. 100 | | | | |
| | 6 | 1.000 | -1.000 | 1.000 | | | | |
| | 7 | 1.000 | 1.000 | 1.000 | | | | |
| | | -1.000 | 1.000 | 1.000 | | | | 111 |
| | 9 | 0.000 | 0.000 | 0.000 | | | | |
| STR | ESS | POINTS FOR | PRISP E | LEMENTS | | | | |
| PO | INT | St | 52 | 53 | 54 | | | |
| | 1 | 1.000 | 0.000 | 0. 900 | -1.000 | | | |
| | 2 | 0.000 | 1.000 | 0.000 | -1.000 | | | |
| | 3 | 0.000 | 0.000 | 1.000 | -1.000 | | | |
| | | 1.000 | | 0. 900 | 1.000 | | | |
| | 5 | 0.000 | 1.000 | 0.000 | 1.000 | | | |
| | | 1.000 | | 1.0C0 | 1.000 | | | |
| | 7 | .333 | . 333 | . 333 | 0.000 | | | |
| STR | ESS | POINTS FOR | WE DGE E | LEMENTS | | | | |
| PO | INT | Si | SS | 53 | | | | |
| | 1 | .050 | | -1.000 | | | | |
| | 2 | 1.050 | 9.505 | -1.000 | | | | |
| | 3 | 1.000 | 1.000 | -1.0 CO | | | | |
| | 4 | .050 | 0.000 | 1.000 | | | | |
| | 5 | 1.000 | 0.000 | 1.000 | | | | |
| | 6 | 14000 | .500 | 1. 000 | | | | |
| | | | 200.200 | 77.575 | | | | |
| | | POINTS FOR | | | | | | |
| PO | INT | S1 | 52 | 23 | 54 | | | |
| | . 1 | 1.000 | 0.000 | 0.000 | 0.000 | | | |
| | S | 0.400 | 1.000 | 4. 666 | 0.000 | | | |
| | 3 | 0.000 | 0.010 | 1. 000 | 6. 008 | | | |
| | • | 0.006 | 0.000 | 1.000 | 1.000 | | | |
| | - | | | | | | | |

| 7 | 1 | 3 | m m | 1 | 1 | 3 | | , , | - | 7 2 | 3 | 2 | 1 2 | | | | 2 | 1 3 | 2 | | , , | | | STRESSES FOR PRICKH ELEMENT NG. | PCINT | | * | | : | | | 4 | | | : | | | | | | | | : |
|---|-------------|----------|------------|-----------|----------|--------------|----------|-----------|------------|------------|-----------|----------|----------|----------|----------|-----------|-----------|---------------|-----------|--------------|-------------|------------|------------|---------------------------------|--------|----------|------------|----------|-----------|----------|------------|-------------|-----------|---------|-------------|----------|----------|------------|----------|----------|-------------|----------|-----------|
| * | - | • | • | - | 5 | 2 | | | | ~ | - | - | - | | | | * | | | | | • | • | 0R 9R I | * | | 946+96 | | 1 | 115+01 | | | | 115 401 | 10.00 | | 1045 | . 35 . 0 . | | | . 10E+01 | | 10.3 |
| | | - | | | | | | | - | | | | | | | | | | | | | | | CKH EL | | | + | | : | 115.00 | 37.70 | | 1366 | | : | | : | | **** | | . 1 86+ 08 | 64.8-04 | - 246 |
| 2 | .151 | .126 | .118 | .149 | . 1182 | 940 | | . 36 8 | .117 | .1354E-01 | .1197 | 13366-01 | 1500 | | | | .1639 | . 1338E-01 | 100 | | 203 | . 1021 | ****** | EMENT | - | | | | | | : | | 1 | | | | | | | | : | | |
| | 15156-01 | 12656-01 | .1186E-01 | 14906-01 | 11826-01 | 94025-02 | | 70-35 | 11766-01 | 16-91 | 11976-01 | 10-99 | 15005-01 | | 13-32-01 | 11056-01 | .1639E-01 | 16-01 | 106.65.01 | | 3000 - 15 C | 1027E-01 | 1 | | 2 | | *** | - | | ***** | 0043340 | | | | | | | | | | • 66E+39 | | .20C+70 |
| • | .3898E- | 6887E-09 | .1517E-02 | .2056E-02 | 65695-89 | 160 AF - 0 A | | 114546-02 | . 2017E-02 | 2341E-09 | .7736F-03 | 17716-02 | 10405-03 | 36.07. | 2183E-09 | 1236E-00 | .1735E-02 | . 28 125 - 82 | 13.05 | 99-30131 | . 78865-63 | .177 3E-02 | . 10265-02 | 1 MATERIAL . | SIGMA | FPSX | ***** | | • | 15E-01 | | 19-361 | | 11.2.1 | *0.56. | 10 61 | * 52E+64 | 12E-01 | 1 | 71E-C2 | .31E+03 | 196-01 | . 2 3E+66 |
| | 63 | | | | | | | | , | | | | | | | | | | | | • | | | - | STGHAY | EPSY | · 50E+04 | .23E-01 | 62E+83 | .146-01 | | . 1 36 - 61 | | | . 5 9E + 14 | . 195-81 | . 256+84 | .146-01 | **** | . 86F-02 | .796+13 | .19E-01 | .27F+84 |
| | 2204E-01 | 18496-81 | 18 32E-01 | 2172E-81 | 20236-01 | 1000000 | 10-30001 | 1654E-01 | .19926-11 | 20 22E- 61 | | 10000 | 2000 | 10-36077 | 2118E-C1 | -17616-61 | 1723E-01 | 20066-01 | | 10 + 1E - 01 | 1695E-01 | 1826E-01 | £6666-61 | | STEMAT | 2543 | **** | | • | • | | | | • | | • | | • | | • | | • | 75: +11 |
| I | .741 | 12965+88 | . 845 | 740 | | | | .275. | .878. | | | | | | | | | | | | | | | | TAHEN | GAMMAXY | | 22E-62 | 496+11 | 77E-03 | 41E+12 | 63E-12 | | 95E-02 | 12E+12 | 196-02 | . 49E+12 | .776-12 | | 17E-B1 | 55E+12 | 87E-02 | - TAFARS |
| | .7415E . 00 | 20.00 | A450F . 00 | 74916-01 | 100000 | 10.000 | 10.30 | .27505+00 | 8701F=81 | | | | | | | | | | | | | | | | | G AMMAY7 | .246+02 | .3. E-02 | . 566 +81 | . BBE-13 | . S4E+12 | . 05 E-92 | *** | ·67E-02 | .275+12 | . 43E-02 | 58 E+8 2 | 916-02 | . P6E+8E | . 126-01 | . 52E+12 | . 82E-02 | 206.00 |
| | | | | | | | | | | | | | | | | | | | | | | | | | ***** | CAMMAZX | -765+02 | .12E-01 | .67E+82 | .116-01 | . 41E+ 82 | .64E-02 | .61E+02 | .96E-12 | .11E+03 | .17E-01 | .92E+02 | .146-01 | | . 136-01 | .94E+82 | .15E-01 | **** |
| | | | | | | | | | | | | | | | | | | | | | | | | | | Telle | . 586.64 | . 23E-C1 | 62E+ 83 | . 146-91 | . 59F + 14 | 11-351. | . F9E+08 | 10-322 | . 59E+B4 | . 196-61 | . 25E+84 | . 15E-01 | **** | 136-61 | . DOE + 6 3 | . 20E-01 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | STERES | 4364 | 76E-03 | 77E+63 | .16E-02 | .54E+84 | -44E-12 | .47E+83 | 53E-04 | .57E+84 | 64 E- B4 | .24E+84 | .17E-02 | - | 166-03 | .565+83 | -11E-02 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | SIGHAS | | ZBE-B1 | -186+84 | 17E-81 | . 52E+ B4 | 15E-B1 | . £3£+83 | 196-01 | . SAE+ B4 | 28E-B1 | 215.04 | 17E-B1 | **** | 176-81 | 266.03 | 23E-01 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | TAUMAX | A MARKA MA | 724 | | 315-01 | 196+03 | 386-01 | . 266 963 | - 616 - | 266.60 | | 206 40 2 | 12F-01 | | 100 | 276 | . 626-81 | |

| 4.000 + 6.00 + 6.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 910 5E-01 910 5E-02 910 5E-02 | 11026-01 | | | | | | | | | | |
|---|--|----------|-------------|-------------|--------------|---------------|----------|------------|--------------|--------------|------------|------------|
| ************* | | | 65696-19 | | . 20 23E- 01 | | E+ 00 | | | | | |
| , , , , , , , , , , , , , , , , , , , | 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 | 20-32006 | - 1881E - B | - | 19.30 961 | .37306.0 | 11.1 | | 1 | | | |
| ************************************** | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 9286F-02 | 29-3424T. | | . 10506-11 | . 275dE+80 | | | | | | |
| | | 11766-01 | 20-34102 | | 13-32661. | . 87 016 - 81 | 11-11 | | | | | |
| ******** | | 21-31516 | 99-39201- | | TO 101 | 18956 - 81 | E - 11 | | | | | |
| | 201. 105. 107. 117. 118. | 21-33 | - 1000 | | 10.24.01 | 2000 | 11. | | | | | |
| | 2011 | 21-30 | . 1401E-02 | | -015216- | .553/ | 2 | | - | - | | - |
| | 1112 | 20-30 | 20-30167 | | | .1539691 | 10.3 | | | | | |
| | 7111 | | 7000 | | | | | | | | | |
| | | 76-01 | 47746-82 | | | | | | | | | |
| | - | | | | | | | | | | | |
| | | | 20-126-0 | | 10216-01 | | | | | | | |
| | 121 | | - 3000 | | | | | - | | | | |
| | | 70-3163 | | | | | | | | | | |
| | | 30.36.36 | 133661 | | | | | | | | | |
| | | 10304-01 | 21102 . | | | | | | | | | |
| 1 2 | - | 20-36010 | - 16 66 | | 10-36601 | | | | | | | |
| 2 | 367. | 73506-02 | - 368. | | 19196-81 | | | | | | | |
| 2 2 | 200. | 20-31200 | 21.206-02 | | 10936-01 | | | | | | | |
| TOPPERS FOR MICKEY PARKET NO. | THE PLEMENT | ~ | MATERIAL . | | | | | | | | | |
| | | | | | | - | | | | - | - | |
| x INTO | | , | FPSX | EPSY | EPSZ | GAMMAXY | CAMPAY Z | CAMMACK | The state of | STORE STORES | EPS3 | CAMMANA |
| e iteati | | . 662+08 | . 99Eves | . 9 96 + 84 | . 90E +00 | 2843210 | 284342 | . ITE . 83 | . 996 . 84 | . 572.004 | . SuE . Bu | . 29E 46 3 |
| | | | 16E-01 | . 195-01 | 446-82 | 196-12 | .436-02 | .17E-01 | . 196-11 | SAE- BL | 20E-01 | . 39E - 11 |
| 11 .126+01 0 | : | .66E+00 | . 22E+84 | .296.04 | .23E . BA | .496.02 | 50 [+02 | .926+82 | ***** | 18+342. | .21E+84 | . 20E + |
| | | | 12E-C1 | . 146-01 | 196-12 | .776-12 | 916-12 | .146-01 | 196-01 | .17E-12 | 17E-01 | - 326 - |
| 15 .125 +01 | 126+80 | . 665.43 | . 105-06 | .195 | 17. | .116. | 136-13 | 2 | . 196.0 | .10E+84 | 195. | 112. |
| 10000 | - | 800-408 | 20.37 | | 2000 | | 10.000 | | | | | |
| | | | 196-61 | . 196-01 | 1.K-02 | 67E-02 | 20-320 | .186-01 | . 20E-01 | -11E-02 | 236-01 | . 426- |
| 14 .125+01 | : | . 156+11 | 71E+04 | 67E+84 | 70E + 84 | 14E+82 | .356.02 | .146.03 | 67E . B4 | 69644 | 72E+84 | . 245 . |
| | | | 136-01 | .17E-01 | 67E-12 | 22E-12 | . SSE-02 | .21E-01 | . 17E-01 | -126-02 | 21E-B1 | . 30E -01 |
| 19 .146+01 0 | : | . 05E+00 | . 4 36+03 | .716.03 | . 525 + 8 3 | 20E+01 | 476+02 | .126.03 | . 72E . 08 | . 596+83 | . 39E + 83 | . 196 ** |
| | | | 106-01 | .116-01 | 31E-12 | 46E-03 | 7.E-12 | 10-301. | 11X-01 | -20E-12 | 17E-11 | . 29E-1 |
| 16 .19Eoft | -136age 1. | . 89Ev09 | . 346.04 | .306+84 | . 395 . 84 | 906082 | 200302. | 2843640 | . 300.00 | . 392. | .345+ | . 146 . |
| | | | 756-12 | 20-366 | 406-12 | 19E-12 | E-12 | .77E-12 | . 11E- 11 | 16E-G2 | 11E-01 | . 22E - 11 |
| 17 .126+01 | .12E+00 | .056+00 | .765+04 | | . 786 | 20+329*- | 20.399 | . 996 - 12 | | .7 8E+84 | .75E+14 | - 24E +1 |
| | | | 10 01 | 176-01 | 202 | 976-02 | 11-11 | .166-01 | . 105-01 | 20-342· | 20E-01 | . 395-61 |
| 10 . 126+01 | | . 706+00 | | | | -, 336+02 | 26+322 | 20.320 | . 21E . 14 | 1964 | | 196 46 |

| - | | | | | | | | | | | | | |
|----------|----------|---------------------------------|------------|--------------|-----------|-------------|------------------|------------|----------|-----------|-----------|-----------|----------|
| | | .149 | 14986-01 | . 2056E-C2 | | 217 2E-C1 | .74936-01 | 10- | | | | | |
| • | | | 11006-01 | . 19175-02 | | 18 32E-01 | . 8 4 9 0 5 + 40 | | | | | | |
| | 2 | .117 | 1170E-01 | . 2914E-02 | | 1815E-01 | 91 3AE + DD | 00 - | | | | | |
| - | | .147 | 147 3E-01 | .3967E-02 | • | 2136E-01 | .10185.91 | 10. | | | | | |
| - | 3 | .11. | 1176E-01 | . 2017E-02 | • | 1992E-01 | .87C1E-01 | 10- | | | | | |
| m | y. | 926. | . 9286E-02 | .1424E-02 | | 1654E-01 | .2750E+00 | | | | | | |
| m | 2 | 906. | .9086E-02 | .3101E-02 | | 1620E-01 | .5 80 8E + 00 | 00+ | | | | | |
| | | 111 | 11725-01 | . 3892E-02 | - | 19996-01 | .10005.01 | 14. | | | - | | |
| 2 | 3 | .133 | .1336E-01 | .17716-02 | | 1999E- 01 | | | | | | | |
| m | m | .117 | 11796-01 | . 2231E-02 | | 1823E-01 | | | | | | | |
| 2 | • | .131 | .1314E-01 | 33995-02 | | 1973E-01 | | | | | | | |
| - | m | .148 | .148EE-01 | . 3022E - 02 | | 2155E-01 | | | | | | | |
| - | 3 | .133 | .1330E-01 | .2032E-02 | | 2086E-01 | | | | | | | |
| | | . 163 | 10395-01 | .1735E-02 | | 1723E-01 | | | | | | | |
| e . | , | .103 | .1036F-01 | .3079E-02 | | 1712E-01 | | | | | | | |
| - | • | .131 | . 1316E-01 | . 3911E-02 | | 2051E-01 | | | | | | | |
| 2 | 3 | .102 | 10275-01 | .1773E-02 | | 1826E-01 | | | | | | | |
| m | 5 | .956 | 95£ 8E-82 | . 2380F-02 | | 166 9E - 01 | | | | | | | |
| 2 | 5 | -102 | 1022E-01 | .3482E-02 | | 1787E-01 | | | | | | | |
| | | 111 | 1114-01 | . 297 3E-02 | | -19761-01 | - | - | | - | - | - | |
| TRESSES | FOR BRI | STRESSES FOR BRICKH ELEMENT NO. | | 3 MATERIAL = | - | | | | | | | | |
| POINT | * | | 2 | SIGNAK | SIGMAY | SIGHAZ | TAUKT | TAUYZ | TAUZK | STGMAI | SIGME | SIGHAB | TAUMAX |
| | .936+98 | .92E-81 | .466+99 | . 256+03 | .746+83 | | 606+02 | ****** | .416.09 | - | - | | |
| | | | | 17E-61 | .21E-01 | 12E-02 | 95E-02 | .67E-02 | -966-02 | . 22E-01 | 53E-04 | 196-01 | . 41E-0 |
| 50 | .11E+01 | .11E+00 | ** FE+00 | . 52E+04 | .55E+04 | . 546 + 04 | | .54 E+02 | .416+12 | . 55E+114 | . 54E+04 | .52E+04 | . 196 +1 |
| | 116+01 | 225+00 | -466+03 | 14E-01 | .135-01 | .535-02 | 63E-02 | .85E-02 | .64E-02 | . 156-01 | -44E-02 | 15E-01 | .30E-01 |
| : | | | | 136-61 | .11E-01 | - 465 - 82 | | . 67 E-02 | .716-02 | 146-01 | 416-02 | 166-61 | 296-61 |
| - 22 | . 92E+00 | *10E+88 | 8 E+39** | . £2E+84 | .67E+84 | . 645+84 | 106.03 | . 636+82 | . 656+02 | | | | |
| | | | | 16E-01 | . 18E-01 | . 535-03 | 16E-01 | .99E-02 | .72E-02 | . 21E-01 | .78E-83 | 19E-01 | . 60E-01 |
| 23 | . 10E+01 | .10E+00 | ·66E+00 | .31E+63 | .796+03 | . 53E + 03 | | . 52E+12 | .94E+02 | . 88E+ 83 | .96E+83 | .26E+03 | . 27E+ |
| | | | | 19E-E1 | .195-01 | 136-02 | | . 62E-82 | .156-01 | . 20E-01 | .11E-02 | 23E-81 | . 42E-01 |
| 54 | .12E+01 | .12E+00 | .66E+00 | . 16E+C4 | . 20E+ 04 | . 17E +04 | .21E+02 | 53E+02 | .96E+12 | . 20E+84 | *17E+84 | . 15E+ 04 | . 21E + |
| | | | | 93E-02 | .17E-01 | 56E-12 | | 63E-02 | . 15E-01 | . 185-01 | . 90E-04 | 16E-01 | .34E- |
| 35 | *15E+91 | -23E+88 | *66E+88 | *96E+84 | *306+04 | . 37E+84 | | *136+93 | *396+82 | - 39E+B | *37E+64 | . 35E+B | · 285+ |
| | | 1 | | 71E-02 | .94E-02 | . 936 - 03 | 24E-01 | . 21E-81 | .62E-82 | . 196-81 | . OBE- 03 | 17E-01 | . 37E-0 |
| . 92 | . 10E+01 | .26E+88 | .66E+38 | • 66E+64 | .7 1E+04 | · 68E + 84 | 97E+12 | . 85 E+0 2 | .84E+82 | . 715+64 | .68E+04 | .66E+84 | . 27E+03 |
| | | | - | 17E-01 | .17E-01 | 40E-93 | 15E-01 | .136-01 | .13E-01 | . 20E-01 | .11E-02 | 22E-01 | . 426-01 |
| . 12 | .11E+01 | .166+00 | . 56E+ 10 | . 22E+04 | . 26E+84 | · 245 + 04 | 52E+02 | .49E+12 | .64E+02 | . 26E+ 04 | . 24E+64 | . 22E+04 | . 20E+ |
| | | | | | | | | | | | | | |

DISPLACEMENTS FOR BRICKH ELEMENT NO. L MATERIAL = 1

| | | 25. | 1176E-01 | . 2017E-02 | | | | | | | | |
|---------------|-----------|---------------------------------|-------------|----------------|----------|--------------|----------------|-------------|-------------|------------|------------|------------|
| nn a a | | 26. | Append 2 | | | 1992E - 01 | . 67 0 15 - 81 | E-81 | | | | |
| m m m | | | - | . 1424E-82 | | 1 65 4 E- E1 | 11.386.2 | | | | | |
| | | | 9086E-02 | . 3101E - 02 | | 1620E-01 | . 5 80 9E + 00 | | | | | |
| | • | - | 117 26-01 | . 3892E - 02 | | 19996-01 | .1000: - 11 | 111 | | | | |
| | 2 | .91 | 915 0E-02 | . 2014E-02 | | 1783E-01 | .1233E+01 | 1113 | | | | |
| • | | .72 | .722 tE-02 | .1401E-02 | | 1531E-01 | .9937E+00 | | | | | |
| | 2 2 | .67 | .6721E-02 | .272GE-C2 | | 1466E-01 | .210%-01 | 11-3 | | | | |
| | - | 24. | 20-30 826 | . 3908E-02 | | .17986-11 | 18.38482. | 14.2 | | - | | - |
| 2 | 5 | .10 | 1027E-01 | .1773E-02 | | 1826E-01 | | | | | | |
| , | | . 25 | 956 BE-02 | . 2 380E - 0 2 | | 166 96-01 | | | | | | |
| 2 | 5 | .16 | 1022E-01 | . 3482E-02 | | 1787E-01 | | | | | | |
| , | | .111 | 11746-01 | .29736-12 | | 1976E-61 | | | | | | |
| 1 | 9 | .10 | 1038E-01 | .2011E-02 | | 1091E-01 | | | | | | |
| | 9- | 24. | - 127-9E-02 | . 1990E-02 | - | .19872-01 | - | | | | | |
| 2 | . 9 | .787 | 7872E-02 | . 2982E-02 | | 1538E-01 | | | | | | |
| 1 5 | 9 | . 164 | 104 15-01 | 38918-62 | | 18616-21 | | | | | | |
| 2 | | .80 | 8021F-02 | 176.65-02 | | | | | | | | |
| | | 70 | 701.06-02 | 21116-02 | | 16.66-01 | | | | | | |
| | | 76. | 769AF-02 | 1116F-02 | | 16096-01 | | | | | | |
| - | | 14. | 20-20676 | 29-39-62- | - | 10-33441 | | | | | | - |
| STRESSES | FOR BRI | STRESSES FOR BRICKH ELEMENT NO. | | A MATERIAL = | - | | | | | | | |
| POINT | * | | 2 | SIGMAN | SIGHAY | SIGHAZ | TAUKT | TAUAL | TAURE | S TGMA 1 | STGMAE | SIGHAB |
| : | - | | | L PSX | EPST | 7543 | CAMMAKY | CAMMAN | CAMMA2X | 1543 | EP\$2 | EPS3 |
| | . 105 +01 | | . 665. 00 | . 315.03 | | . 535 . 63 | 200366 | 200326 | 200306 | | .965.03 | . 262+83 |
| . 62 | . 12E+01 | .126+00 | .665+00 | . 165 . 04 | . 20E+84 | 175.00 | .216+02 | -156+00 | . 926 + 82 | | 106.00 | 166.04 |
| | | | | 93E-62 | .17E-01 | 31E -02 | .336-02 | 23E-06 | 146-01 | 105-01 | 17E-02 | - 166 |
| 30 | . 12E+61 | .23E+00 | . 66E+39 | . 36E+C+ | .305.04 | .375 .04 | 15E+13 | .136+83 | . 396+02 | . 396 + 84 | . 37E+04 | .35E+04 |
| | | | | 71E-02 | .94E-02 | . 936 - 83 | 24E-01 | . 21E - 01 | .62E-12 | 10-361. | . BOE- 83 | 17E-B1 |
| 31 | . 105 -01 | .202.00 | . 885+00 | . 662.04 | .712.004 | . 685 . 04 | 97 2002 | 200368. | .845.82 | . 716.84 | . 68E.B. | . 862 + 84 |
| | | | - | 17E-11 | .17E-01 | 406-03 | 15E-11 | . 136-01 | .136-01 | . 205-01 | -11E-02 | 22E-81 |
| . 25 | . 12E +01 | .126.00 | . 855.00 | . 766.04 | | . 785 . 84 | 62E+02 | .66 [• 12 | .99E+12 | . BOE . B. | .7 BE + 84 | . 75E+B4 |
| | | | - | 16E-01 | .17E-01 | 26E-03 | 97E-02 | . 10 6-61 | .166-01 | . 186-01 | -24E-12 | 20E-01 |
| . 22 | 136 401 | .13E+00 | . 65E+30 | .346+04 | .366. | . 395 . | 56E+12 | 28E+15 | 20.36. | . ME . | . 35E+ B4 | .34E . |
| | | | - | 75E-02 | . 99E-02 | 401-02 | 896-12 | . 40E-12 | .77E-02 | . 116-91 | 16E-82 | 11E-01 |
| | 135+11 | 284462 | . 856+19 | 20036. | .226083 | .126.013 | 126083 | .126083 | . 396. 82 | . 336 . 03 | .125183 | 96E+12 |
| | | | | F6E-C2 | .64E-02 | 15E-12 | 10E-01 | 196-01 | .566-12 | . 15E-01 | 11E-02 | 15E-B1 |
| 35 | . 11E+01 | .216+10 | . 85E+30 | 13E+05 | 136 + 05 | 1 3E + 05 | 136+13 | . 126 . 0 3 | . 116 . 0 3 | 136+05 | 1 36 + 1 5 | 136+ |
| | | | ****** | 20E-01 | .156-01 | . 37E-03 | 21E-01 | . 10 E-01 | .10E-01 | . 206-11 | . 256-12 | 28E-B1 |
| . 95 | . 12E+41 | .17E+00 | . 76E+39 | . 12E+E+ | . 16E+04 | **** | - 766407 | C0+189 | 605403 | | | |
| | | | | | | | 70.75 | 30.30 | 30.300 | · TOE . | **** | |

DISPLACEMENTS FOR BRICKH ELEMENT NO. F MATERIAL = 1

| ## 126 F 01 - 6807 E 02 - 1002 E 03 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 6807E-091849E-0112565+00 | 19306-61 | 15186-01 | 18326-01 | 1668E-01 | 13556-01 | .1325E-021391E-01 .3054E+00 | .1424E-021654E-01 .2750E+00 | 9501E-091685E-01 | .5621E-031524E-01 | 0129tE-021672E-01 | .7736E-031041E-01 | 1230E-081761E-01 | 1576E-881443E-01 | .1291E-021448E-61 | | 1850E-081506E-01 | • | • | 7996E-031695E-01 |
|--|--------------------------|-----------|----------|----------|-----------|-----------|-----------------------------|-----------------------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|-----------|------------------|-------------|----------------|------------------|
| .12055-01 .99394-02 .9416-02 .7916-02 .7916-02 .7916-02 .9078-02 .1078-01 .1078-01 .1078-02 | 6867 | 1042 | 1106 | .1517 | 1698 | 1936 | .1325 | .1424 | 9501 | .5621 | e129¢ | .7736 | 1230 | | 1621. | .1735 | 1850 | 3069. | 1691 | .798E |
| ¥ ** * * * * * * * * * * * * * * * * * | 1265F-01 | 94 705-02 | 94146-02 | 11885-01 | .94C2E-02 | .7517E-02 | .7916E-02 | .928EF-02 | .107 1E-01 | -9478€-02 | .1057E-C1 | .1197E-01 | . 1065E-01 | . 84715-62 | . 8639E-02 | .1039E-01 | . 8393€-02 | .777 GE-0 3 | . 844 2E - 0 2 | 20-38E-05 |

DISPLACEMENTS FOR BRICKH ELEMENT HO. 6 MATERIAL . 1

| | | | - | - | | - | | 7.5 | | - | | | | (m-m) | - | | - | **** | - | | | - :- | - | | | | - | - | - | | | - | - | | | | |
|------------|------------|------------|-----------|----------------|------------|-----------|------------|------------|------------|-------------|-----------------|------------|----------|-----------|-----------|------------|-----------|-----------|-----------|---------------------------------|--------------------|------------|----------|-------------|-----------|-----------|-----------|--------------|--------|------------------|----------|-----------|----------|------------|------------|------------|-----|
| | | | | | | | | | | | | | | | | | | | - | | TAUMAX CANNAMAX | . 285 +83 | . 326-01 | . 196 • 6 3 | 10-367 | 106-01 | . 170 003 | 106.00 | 206-01 | . 176 +03 | . 27E-01 | . 882 482 | .106-11 | . 145 +83 | . 22E - 11 | . 156 +03 | *** |
| | | | | | | | | | | | | | | | | | | | | | SIGNAS | STE OF | 17E-01 | .785.04 | 10-36-1 | 89E-02 | .185.0 | | 17F-B1 | 136+04 | 15E-01 | .872.483 | 54E-02 | .345.04 | 11E-01 | .20E+04 | |
| | | | | | | | | | | | | | | | | | | | | | SIGNA | 184342 | | | | | .176.84 | 506.03 | 20E-02 | 116+64 | .146-12 | . 992643 | -14E-02 | .356.84 | 16E-02 | .21E+04 | |
| | | | | | | | | | | | | | | | | | | | | | STGML | 10.362 | . 156-01 | .73E+04 | 716.00 | . 96E-12 | 190.00 | 776404 | 136-01 | 18E+84 | . 136-01 | . 186.04 | . 496-02 | . 365 + 64 | . 116-01 | . 23E+04 | |
| | | | | | | | | | | | | | | | | | | | - | | TAUZX GAMMAZX | 284326 | .14E-91 | .786.02 | 1825.01 | .06E-02 | 284329 | 126.03 | 186-01 | .94E+82 | .156-01 | 204395 | .57E-02 | .496+82 | .77E-02 | 2444 | |
| | 1111 | :: | ::: | 10-3 | | | 10.0 | | | | | | | | | | | | - | | TAUVZ | 586.482 | 916-12 | 46 E+12 | 436412 | . 64 E-12 | | | 746-02 | 11E+03 | 17E-B1 | tee | 296-13 | .265+82 | 20-304° | 186+82 | |
| .37305+0 | 111326 111 | . 30546+00 | .2790 | . 6 90 35 - 61 | 1831E+ 00 | .1460E+00 | . 993720 | | | | | | - | | | | * | | | | TAUXY GAMMAKY | 284369. | .77E-02 | -20E+02 | 486+82 | 76E-02 | | 286+01 | | **************** | 20-349. | 136+02 | 21E-12 | 566+82 | 89E-02 | 66E+01 | |
| . 1668E-01 | 1355E-01 | 1391E-01 | 1694E-01 | 1467E-01 | 1171E-01 | 13136-01 | . 19312-01 | 1506E-01 | 13896-01 | 1520E-01 | 16996-81 | 15706-01 | 1284E-01 | 134 6E-01 | 15076-01 | 1313E-01 | 12746-01 | 1618E-91 | .19196-61 | | SIGHAZ | . 23E + B4 | 15E-02 | 7.56 + 04 | 196 + 10 | | 1 | .526+83 | 316-02 | 126 + 84 | 51E-03 | \$8.00 | 40E -02 | . 35£ +0+ | 40E -02 | • 215 • 14 | |
| | | | • | | | | | | | | | | - | | • | • | | | - | | SIGNAY | .29E+04 | .14E-01 | .7 3E+04 | 205+84 | . 60E-02 | .196.04 | .715+03 | 116-01 | 11E+04 | .72E-02 | . 992+83 | .46E-02 | .36E+84 | . 99E-02 | .23E+04 | |
| 1606E - 0 | 1936E - 08 | .1325E-02 | .1424E-02 | 1849E-0 | 2135E-08 | .9415E-03 | .1481E-02 | 1850E-08 | . 6900E-03 | .1691E-02 | . 7 886 E - 8 3 | 1814E-08 | 21236-08 | .1209E-02 | .19506-02 | 2061E-0 | .5164E-03 | .1212E-02 | -36044 | 6 MATERIAL = | FPSX | . 228.04 | 12E-01 | . 70E+04 | . 195+6 | 43E-62 | .162.04 | . 6 35 + 6 3 | 106-61 | 13E+C+ | 75E-02 | . 942+13 | .23E-13 | .345+04 | 75E-02 | . 20E+04 | |
| 340 ZE-02 | 7517E-02 | 7916E-02 | 9286E-82 | .7336E-C2 | . 5956E-02 | .6628E-02 | 20-30221 | . 8393E-02 | .777 BE-02 | . 844 2E-02 | .9630F-02 | . 8297E-02 | 20-36-09 | .7246E-02 | .8279E-02 | . 6592E-02 | .6397E-02 | 6756E-02 | 13286-02 | | 2 | . 262+33 | | .665+00 | .66 E+ 10 | | . 665+03 | .85E+30 | | . 85E+ 88 | | . 852+18 | | . 856+00 | | .76E+00 | |
| 346. | 151. | .791 | . 928 | .733 | . 295 | .662 | 221. | . 639 | .777 | 110. | .963 | 629. | 198. | .724 | .827 | 669. | .639 | .675 | . 132 | STRESSES FOR SPICKH ELEMENT NO. | | 0. | | : | .146+00 | | .126+00 | | | | | 196400 | - | .136+00 | | . 696-01 | |
| 1 5 | 5 1 | 3 2 | 8 | 1 1 | 1 7 | 3 7 | 3 | 1 5 | . 2 | 5 6 | 5 2 | 9 | | 9 | | 1 1 | 2 7 | 3 7 | 1 2 | FOR SRIC | × | . 125 • 91 | | . 146 +01 | . 146 +61 | | .126 +01 | 106.001 | | . 15 . 101 | | . 196 961 | | . 13E+91 | | .146+01 | |
| - | 5 | • | • | | • | | | | • | | | | | • | • | | • | | - | 5 TRE 85ES | TH10. | ** | | | ; | | : | | | 51 | | 36 | - | 23 | | * | |

DISPLACEMENTS FOR BRICKH ELEMENT 40. 7 MATERIAL = 1

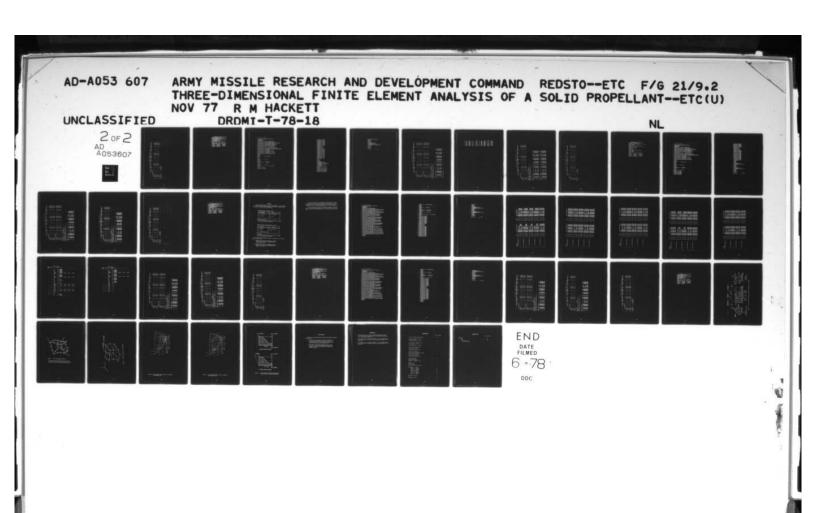
| | .84505+00 | 91900-01 | .2426E+01 | 91 38E + 00 | .2753E+0C | .3054€+00 | .12196+00 | .9808. | | | | | | | | | | | | The second second second |
|---|-----------|-----------|-------------|-------------|------------|-------------|-----------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|------------|-----------|-----------|-------------|--------------------------|
| | 1832E-01 | 19196-01 | 1511E-01 | 1815E-01 | 1654E-01 | 1 39 1E- 01 | 130CE-01 | 19295-01 | 167 2E-01 | 1514E-01 | 1661E-01 | 1823E-01 | 1723E-01 | 16485-61 | 1392E-01 | 1712E-61 | 1520E-01 | 1361E-01 | 1457E-01 | 16696-01 |
| , | .1517E-C2 | .1106E-02 | .2137E-02 | .2916E-02 | .1424E-02 | .1325E-02 | .2+31E-02 | . 3101E-02 | .12965-02 | .1631E-02 | .2494E-02 | .2231E-02 | .1735E-62 | . 1291E-02 | .2435E-02 | . 3079E-02 | .1691E-02 | .1905E-02 | .2751E-C2 | . 238tE-02 |
| , | .1188E-01 | .9414E-02 | . 927 9E-02 | .11705-01 | . 9286E-02 | .7916F-02 | .78895-02 | . 9086E-02 | .1057E-01 | .9348E-02 | . 16416-01 | . 117 96-01 | . 10395-01 | . 8639E-82 | . 85 8 9E-02 | . 1036E-01 | .8442E-02 | .7956F-B2 | . 830 8E-02 | .956te-02 |
| * | • | • | | • | • | u | • | • | | • | | | , | | , | | 8 | u | | • |
| - | | | | | | | | | | | | , | | | | 5 | * | | 61 | |
| | | | | | | • | • | | | | | | | | | * | | • | | |

STRESSES FOR PRICKH ELEMENT NO. 7 MATERIAL = 1

91

| | | | | | | | The state of the s | - | | | |
|------------------|-----------|----------|----------|---------------|-----------|------------|--|------------|--|------------|--------------|
| | 2 | SIGMAX | SIGHAY | SIGNAZ | TAUXY | TAUYZ | TAUZK | STGMA1 | SIGNAZ | SIGHAB | TAUMAY |
| | | E PSX | EPSY | 2503 | GAMMAXY | GAMMAYZ | GAMMAZX | EPS1 | EPS2 | EPS3 | GA MINA MA X |
| . 116+91 | 1 | . 52E+84 | .55E+84 | · 546+04 | | . 54 E+0 E | .415+12 | . 59E+04 | .946+84 | . 5EE+1 | 1196+83 |
| | | 14E-01 | .136-01 | . 53E-12 | 63E-02 | . 85E-02 | .64E-02 | . 15E-91 | -44E-02 | 15E-01 | . 306-01 |
| | | 47E+83 | 22E+03 | 386+83 | 26E+82 | .296+12 | .74E+02 | 21E+03 | 28E+03 | 50E+03 | . 146 +0 3 |
| | | 11E-01 | . 81E-02 | .17=-02 | 41E-02 | .47E-02 | .126-01 | . 89E-02 | .36E-02 | 166-81 | . 23E -01 |
| | | .15E+05 | .15E+85 | · 15E+05 | 48E+02 | .546+62 | .7 2E+ 02 | · 16E+05 | .156+65 | · 15E+85 | . 166 +83 |
| | | 10E-61 | .7 BE-62 | · 65E-02 | 76E-02 | . 85 E-82 | .116-01 | 125-51 | -68€-62 | 13E-01 | . 256-11 |
| | | 59E+64 | 566+84 | 575+04 | -,715+92 | . 995+82 | \$8+364. | 566 . 04 | 575+84 | 66E+B+ | 196 . 63 |
| | | 13E-C1 | .11E-01 | . 46E-02 | 11E-01 | . 87E-02 | .7 1E-02 | . 16E-01 | -416-02 | 166-01 | . 296-01 |
| | | . 16E+64 | . 20E+04 | .17E+84 | . 87 E+82 | 94 E+82 | .795+82 | . 29E+84 | *17E+04 | . 195 . 84 | . 256 +0 3 |
| | | 12E-01 | .19E-01 | 338-02 | . 14E-01 | 15E-01 | . 136-01 | . 22E - 01 | 536-03 | 10E-01 | . 48E-01 |
| | | . 19E+04 | . 20E+84 | . 19E+04 | 48E+02 | . 43E+82 | .55E+82 | . 21E+04 | .20E+04 | .105+04 | . 12E+03 |
| | | 4 3E-02 | . BOE-02 | 125-02 | 76E-02 | .68E-02 | . 86E-02 | . 96E-02 | .18E-02 | 89E-02 | . 106-01 |
| | 1 | .74E+83 | ****** | -79E+83 | -,466+92 | .10E+93 | 34-36+0 | . 936+03 | ************************************** | . 665+83 | .136+13 |
| | | 22E-02 | .66€-02 | .17E-02 | 73E-02 | .165-01 | .785-02 | 136-61 | .22E-02 | 66E-82 | . 21E-91 |
| . 12E+61 .23E+08 | • EEE+ 00 | . 36E+64 | .385+84 | . 37E+84 | 15€+83 | .136+03 | .39E+02 | . 396 + 64 | .37E+04 | .35E+84 | . 23E + 0 3 |
| | | 71E-02 | .94E-02 | .936-03 | 24E-01 | .216-01 | .62E-02 | 196-01 | . BOE-03 | 17E-01 | . 37E-01 |
| | | . 27E+04 | .29E+04 | · 2 8 5 + 8 4 | 41E+02 | .55E+02 | .66E+12 | . 30£+04 | .29E+84 | .27E+04 | . 15E+03 |
| | | 10E-01 | .82E-02 | . 84E - 03 | 65F-02 | . A6.F-02 | 106-01 | 106-61 | 19F-12 | 136-01 | . 236-11 |

DISPLACEMENTS FOR BRICKH ELEMENT NO. 8 MATERIAL = 1



ELEBENT SUMMARY REPORT

| SIGNA MAX 3 3 57 -155E+05 1 3 5 32 .003E+04 1 1 5 17 SIGNA MAX 1 3 5 -134E+05 1 1 5 14719E+04 3 5 56 TAU MAX 1 3 5 35134E+05 1 1 3 1 .275E+01 1 1 5 13 EPS MAX 1 1 3 5 35276E-01 1 1 3 4 .219E-01 1 3 3 19 EPS MIN 1 3 5 35276E-01 1 1 5 13227E-01 1 1 5 13 TIME IN POST = 1.120 SECO40S | | 1 6 | ELEMENT | * | POINT NO. | ELEMENT POINT STRESS ELEMENT POINT STRESS ELEMENT POINT STRESS I J K NO. I J K NO. | ¥ | ELENENT | * | POINT NO. | STRESS | - | ELENENT | | MO. | STRESS |
|---|--------------|------|---------|------------|--------------|--|---|---------|---|--------------|-----------|---|---------|----------|-----|----------|
| 3 3 3 57 .1556+05 1 3 5 32 .0036+04 1 1 5 1 3 5 35 .0036+04 1 1 5 1 4 -,7196+04 3 3 3 3 1 3 5 35 .3036+05 1 1 5 14 -,7196+04 3 3 3 3 1 1 3 5 35 .3036+03 1 1 3 1 ,2756+03 1 1 5 1 1 3 5 35 -,2766-01 1 1 5 13 -,2276-01 1 1 1 5 13 -,2276-01 1 1 1 1 5 13 -,2276-01 1 1 1 1 5 13 -,2276-01 1 1 1 1 5 13 -,2276-01 1 1 1 1 5 13 -,2276-01 1 1 1 1 5 13 -,2276-01 1 1 1 1 5 13 -,2276-01 1 1 1 1 5 13 -,2276-01 1 1 1 1 5 13 -,2276-01 1 1 1 1 1 5 13 -,2276-01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | MATERIAL | NC N | 1ER = | | | | | 1 | 1 | - | -1 | | | | i | |
| 1 3 5 751342-05 1 1 5 147192-04 3 3 3 3 1 1 3 5 351342-03 1 1 3 1 -2752-03 1 1 5 1 1 3 1 -2752-03 1 1 5 1 1 3 1 1 3 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 1 3 1 | SIGNA HAX | • | • | m | 15 | *155E+05 | - | m | • | 35 | . 663E+04 | - | - | | = | .0036.04 |
| 1 3 5 75F+03 1 1 3 1 .275F+03 1 1 5 1 .275F+03 1 1 5 1 1 1 3 1 .231E-01 1 3 3 3 1 .275F-01 1 1 3 4 .229F-01 1 3 3 3 1 .276F-01 1 1 3 1 .434F-01 1 1 5 13 1 .434F-01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | SIGNA MIN | - | m | b . | | 134E+05 | - | | | | 719€+84 | • | m | | 20 | 508E+04 |
| 1 1 3 5 35276F-01 1 1 3 4 .219F-01 1 3 3 1 1 .227F-01 1 1 3 1227F-01 1 1 3 1227F-01 1 1 3 1227F-01 1 1 3 1227F-01 1 1 5 13227F-01 1 1 5 13227F-01 1 1 5 13227F-01 1 1 5 13227F-01 1 1 5 13 1227F-01 1 1 5 13 13 13 13 13 13 13 13 13 13 13 13 13 | TAU MAX | - | m | • | 22 | .303E+03 | - | - | m | - | .275E+03 | - | - | • | 23 | .269£+83 |
| 1 3 5 35276E-01 1 1 5 13227E-01 1 1 5 13227E-01 1 1 5 1 3 5 35 .476E-01 1 1 3 1 .434E-01 1 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 1 5 1 1 1 5 1 1 1 5 1 1 1 1 5 1 | EPS HAX | - | - | • | | .231E-C1 | - | - | | • | .219E-01 | - | • | m | : | .219E-01 |
| 1 3 5 35 .478E-01 1 1 3 1 .434E-01 1 5 | EPS HIN | - | m | • | | 276E-01 | - | - | 8 | 2 | 227E-01 | - | - | • | • | 287E-81 |
| • | GANNA NAX | - | - | 6 | 25 | .478E-01 | - | - | | - | .4346-01 | - | - | 10 | | |
| | TIME IN POST | | - | 1.120 | SECONDS | | | | | | | | | | | |
| | FINE IN STOP | + | * | 1454 | SE0040S | | | | | | | | | | | |
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MICOM SCOPE 3.4.2 MM SM 66 MXM 9.0 14.27
15.22.50.MM KPRM PROM /MP
15.22.50.IP 6000372 MORDS - FILE IMPUT , DC 80
15.22.50.FR 6000372 MORDS - FILE IMPUT , DC 80
15.23.50.KMM KPM, Y1880, CM288080, LXBXS.
15.23.60.LXTYCKISSO, KPXXXMM, IONKPXXX, CY=3.MR=1)
15.23.60.ATTACM(TEX30, KPXXXMM, IONKPXXX, CY=3.MR=1)
15.23.60.ATTACM(TEX30, KPXXXMM, IONKPXXX, CY=3.MR=1)
15.23.60.DSTYCKISSO CONTO, FRESCO IS.
16.29.10.MOM-FATAL ERROR(S) IM OVERLAY GEM.
16.37.31. STOP
16.37.31. STOP
16.37.31. OP 8004 3808 MORDS - FILE OUTPUT , DC 48
18.37.31. OP 8004 3808 MORDS ( 340480 MAX USED)
18.37.31.CPA 92.477 SEC. 83.238 ADJ.
18.37.31.CPA 92.477 SEC. 93.238 ADJ.
18.37.31.CPA 93.67.442 KMS. 95.276 ADJ.
18.37.31.CM 9367.442 KMS. 95.276 ADJ.
18.37.32.CPP 180.388 SEC. DATE 187/18777
```

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LINE DIRECT LIST OF IMPUT DATA
              2 8 104.2, 5.1.1 $ CASE ELEVENTS
3 8 40
44 KE 10
45 KE 10 27.4
46 16 16 27.3
47 36.5 E. OPE 1.1.1.1.5 $ E. DES REE FACE
48 16.5 ELOPE 1.1.1.1.5 $ E. DES REE FACE
49 16 NO
50 KE 10
50 KE 10
51 JE 10
52 KE 10
53 JE 10
54 KE 10
55 JE 10
56 KE 10
57 JE 10
58 KE 10
59 KE 10
50 ```

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129 POINT:1:1.3.9. 1.6.5..33.2.4.5

130 END:5ET

131 SO.VE

132 POST

133 BLOGG

134 DPIION:2

135 END:POST

136 NEZONE:1:1.7. 3.3.11

137 REFINE, GRADS:1:1.7. 6.2.2

139 BC:NEZONE: 1:1.7. 6.2.2

139 BC:NEZONE: 1:1.7. 6.2.2.2.2.2.2.1.1.7

1-0 dci.REZONE: 1:1.7. 6.2.2.2.2.2.2.2.1.1.7

1-0 dci.REZONE: 1:1.9. 2.6.2.2.2.2.2.1.1.11

1-1 END:CONTROL

1-2 SO.VE

1-3 POST

1-4 SO.VE

1-3 POST

1-4 SO.VE

1-5 POST

1-7 SIJP

IME AN FFLOSA

1 1-6.5..33.2.4.5

1-6.5..33.2.6.5

1-6.5..33.2.6.5

1-6.5..33.2.6.5

1-7 SIJP

IME AN FFLOSA

1-6.5..33.2.6.5

1-6.5..33.2.6.5

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TIME IN FFLOSS

1.L41 SECUNDS

LL: ME17 SUMMART REPORT

|           |        |                   |    | -    | -        |          |   |         |    | 0000         |           |      |    |         | -  | IRD  | /             |
|-----------|--------|-------------------|----|------|----------|----------|---|---------|----|--------------|-----------|------|----|---------|----|------|---------------|
|           |        | ELEBENT.          |    |      | <b>.</b> | STRESS   | - | E.Egent | -  | POINT<br>NO. | STRESS    |      | 3  | ELEMENT |    | MO.  | STRESS        |
| ERIA      | 1      | MATERIAL NJMBEK : |    | -    |          |          |   |         |    |              |           |      |    |         |    |      |               |
| SIGNA MAX | -      | -                 | •  | •    | •        | 83754.3  | - | •       | -  | -            | 941: +83  | :    | -  | •       | -  | 2    | 0 4 1 6 + 0 3 |
| SIGHT AIN | ~      | -                 | -  | 20   |          | 103:0.0  | • | -       | -  | 12           |           | :    | -  | ~       |    | 62   | 1006+44       |
|           | -      | -                 | •• | 23   |          | .276:0.3 | - | -       | -  | ;            | .276:+83  |      | -  | -       |    | 31   | .2756+03      |
|           | -      | -                 | -  | •    |          | .23.6-41 | - | -       | -  | •            | 19-:182   | :    | -  | •       |    | 31   | .2316-61      |
|           | -      | -                 |    | 2    |          | 17-3262  | - | -       | -  | ;            | 292:-01   | :    | -  | -       | 10 | =    | 2526-01       |
| GARRA HAX | -      | -                 | 41 | . 73 |          | 1366     | - | -       | •  | ;            | - 35: -01 | :    | -  | -       | -  | 33   | 346-01        |
| ERI       | 41. 11 | MATERIAL NJHBER = |    | ~    |          |          |   |         |    |              |           |      |    |         |    |      |               |
| SIGH MAX  | •      | •                 | ~  | 503  |          | .5:11:6; | • | •       | -  | 912          | . 347     |      | •  | -       | _  | 155  | . 5336 . 65   |
| SIGHT MIN | •      | -                 | -  | 2.3  |          | 1.2:4.5  | • | -       | •- | 5.6          | 127E+85   | •    | •  | -       |    | 199  | 1246+05       |
|           | •      | •                 | -  | 151  |          | .230:+65 | • | ~       | -  | 157          | .209:+05  | • 10 | •  | •       |    | 992  | .2058.05      |
|           | •      | ~                 | -  | 156  |          | .176:-12 | • | •       | •  | 216          | .1776-32  | .15  | •  | •       |    | 196  | -1776-42      |
|           | •      |                   |    | 203  |          | 632:3    | • | -       | -  | 199          | 363:-03   |      | •• | •       |    | 212  | 7e7E-03       |
| GAMMA MAX | •      | ~                 | -  | 4.   |          | .2324-62 | • | •       | -  | 157          | .2512-02  | 20.  | •  | ~       |    | 51.0 | .2.7E-W       |
|           |        |                   |    |      |          |          |   |         |    |              |           |      |    |         |    |      |               |

TIME IN POST = 3.15.3 SECONDS
MAXIMUM NUMBER OF CJARSE SKID ELEMENTS FOSSIBLE = 16
MAXIMUM DIMENSION OF REFINED GKID = 1331
MAXIMUM NUMBER OF GRIG FORMIS IN ANY ONE DIKESTION = 13

| COAKSE<br>MODE | 6210 EL<br>X J I | GAID ELEMENT # 9  | Y-C3083      | Z-330K3  | MODE | 1 ' X  | x-C00ku    | Y-COORD    | 1-003-1  |
|----------------|------------------|-------------------|--------------|----------|------|--------|------------|------------|----------|
|                |                  |                   |              | .120:011 | 11   | 543.2  | .1436.     |            | .12.6+ 1 |
| •              | 2010             | ****              | :            |          |      |        |            |            |          |
| ~              | 54193            | .1396+41          | ;            | 1750210  | 12   | 19206  | 1486411    | 1943447    | . 1505.  |
|                | 1.1.             | 11756441          | . 64 B + 1.1 | .124:4.1 | 13   | 60101  | . 106E+01  |            | .15%.    |
| •              |                  |                   | E-6-5-3-3    | 1.26.    |      | 50100  | .217E+u1   | ;          | . 1566   |
|                | 2000             | * 1 10 E . T      | 1000         |          |      |        |            | 733575     |          |
| 5              | 7.1161           | 2154-61           | :            | 134:461. | 4    | 60363  | 1.75       | 1943/200   | . 73167  |
|                |                  | . 234.64.1        | •            | 134:461  | 16   | 50361  | . 133E+L1  | .3376+66   | . 1566.  |
|                |                  |                   | *******      | . 4:40   | 1.1  | 781.22 | . 2226     | ;          | . 194E+  |
| ,              | 1363             | . 10 ye + 61      | 774 1040     | 10       |      |        |            |            |          |
|                | 7.3 301          | .1.66+41          | . 3305+30    | 194:461. | =    | 70263  | .217E+11   | . 3906+86  |          |
|                |                  |                   |              | 120:001  | •    | 7.362  | - 167E+ 1  | - + 19E+66 | . 194E . |
| ,              | 20100            | 79.31170          | :            |          |      |        |            |            |          |
| 3              | 5.2.3            | .132E+.1          | .3035+       | .12324.1 | 2.   | 1.501  | . 100E . 1 | . 34.64    |          |
| COAPS          |                  | SETO CLEMENT # 13 |              |          |      |        |            |            |          |
| -              |                  |                   |              |          |      |        | 00000      | 410000     | 10000    |

|   |          |            |           |           |    |       | ~ ~~~~    |            |             |
|---|----------|------------|-----------|-----------|----|-------|-----------|------------|-------------|
|   | 72141    | .2156+61   |           | .19910-1  | 1. | 70302 | .1675+61  | . 4895+86  | .194E+11    |
|   |          |            | 7 (5)     | .1446+41  | 12 | 70201 | . 188E+:1 | . 384E+00  | . 194E+. 1  |
| 5 | 76103    | . 230E+ U1 | e •       |           |    |       |           |            | .217E+ 1    |
| 3 | 7 3 30 3 | .149E+u1   | . 648=+41 | .194:001  | 13 | 80181 | . 2156+41 |            |             |
|   |          |            |           | .13010-1  | 14 | 86163 | . 236E+41 | 6.         | . 217E+. 1  |
|   | 7.361    | .1+0E+.i   | .3302 *** |           |    |       |           | . 632E+66  | . 217E+, 1  |
| 5 | 96101    | .215E++1   |           | .2+1:+11  | 15 | 66363 | .107E+.1  |            |             |
|   |          | .230E+61   | 6.        | .241:+41  | 16 | 84361 | .146E+u1  | .33GE+8C   | . 217E+. L  |
|   | 1.163    |            |           |           |    | 96162 | . 222E+61 | <b>u</b> . | . 241E+.1   |
| 7 | 3 . 30 3 | .134E+61   | .612:+01  | .2.1:+.1  | 17 |       |           |            |             |
|   | 94361    | .146E+L1   | .3306+    | .2.1: ·.1 | 16 | 942.3 | . 215E+.1 | . 391E+6C  | . 241c+ . 1 |
|   |          |            |           |           | 19 | 90362 | -166E+L1  | . 464E+66  | . 261E+ . 1 |
| 9 | 74162    | 19+3222.   |           | .194:+61  |    |       |           |            |             |
|   |          | 2          | 700-41.   | . 1 1     | 2  | 44241 | -188E+41  | .304E+0C   | .241E+.1    |

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TIME IN 2357 . 2.607 SIGO435
MAXIMUM NUMBER OF GOARSE GAID ELEMENTS FOSSIOLE . 16
MAXIMUM DIRENSION OF REFINE GAID . 1331
MAXIMUM NUMBER OF GAID FOINTS IN ANY ONE DIRECTION . 13

| NODE S | 1 7      | 5         | V-23083      | Z-230R3      | NODE | 117    | X-C00RD       | 1-C00R0    | 2-000-2  |
|--------|----------|-----------|--------------|--------------|------|--------|---------------|------------|----------|
|        |          |           |              | 1,95644.     | 11   | 70362  | .17661        | .297:+88   | .1566.   |
| -      |          | •         |              | 139:461      | 15   | 70201  | 1796.1        | . 1635.00  |          |
|        | 1010     | •         | 2305410      | 134:4:1      | 13   | 19100  | . 26 ZE + . 1 | •          |          |
| m      | 73363    | •         | . 36 85 . 30 |              |      |        | . 2115.       | ;          | .1756.   |
|        | 7 . 84 1 | •         | .274E+uL     | 17956670     | :    |        |               | 20.00      |          |
|        |          |           |              | 1164:061     | 15   | 86363  | . 195E+.      | . 3336 .   |          |
|        | 33161    | •         |              |              | :    | 1010   | 11766.41      | . 289E+00  | .17%     |
|        | 34193    | •         | .,           | 10.00        |      |        |               |            | . 19wE . |
|        | 2016     |           | .347=+13     | 134:461.     | 1    | 30106  | ******        |            |          |
|        | 2000     |           |              | 134:4:       | •    | 962.3  | .216E+.1      | . 1995+66  | . 7 345. |
|        | 9.301    | Ī         |              |              |      | 00162  | 1066.         | . 326E+06  | . 196.   |
|        | 2        |           | •            | 1139241      |      | -      |               | 30.11.0    | 10-641   |
|        |          |           |              | 134:451      | 2.   | 99261  | .209E+ ul     |            | -        |
|        | 7.263    |           |              |              |      |        |               |            |          |
|        | SAID :L  | CHENT . 3 |              |              | 900  | ;      | r-moe.        | Y-C00RG    | 2-000    |
|        | 1 7 8    | 3-C004.   |              | Z-200K3      | 200  |        | -             |            |          |
|        |          |           |              | 1005001      | 11   | 96362  | .1956+61      | . 326 - 96 | .19.E.   |
|        | 19106    | 15436170  | •            |              |      | 34241  | . 26.56 1     | 2335+06    | . 1946.  |
|        | 90103    | .222E+ 01 | •            | 174:47       | *    |        |               |            | . 206Et. |
|        | 23262    | .2.36041  |              | 174:4670     | :    | 7.79.7 | 17.36170      |            | 20.64    |
|        |          |           |              | 1104:461     | **   | 100163 | . 4222E+.1    | ;          |          |
|        | 30361    | .196E+01  |              |              |      | 1.0363 | .202:+41      | .347=+00   | . 2864.  |
| **     | 1.1241   | .2156+11  | •            | 10.3/170     |      |        |               | 2005-201   | . 206.   |
|        |          | 2226041   | •            | .2:7:+61     | •    | 70000  | 1045510       |            |          |
| -      |          |           |              | . 217: + 6.1 | 17   | 119175 | .2106.1       | ;          |          |
| -      | 10201    | 19.3777   |              |              |      | 113262 | . 2145.1      | . 284E+86  | . 2176.  |
|        | 1.36.1   | .192E+11  |              | 17.5717.     |      |        |               | 2265 + 0.0 | . 217E.  |
| •      | 00000    | .2166.41  |              | 13454        |      | 110300 | ******        |            |          |
|        |          |           |              | 136:461      | 26   | 110261 | . 26 SE+. 1   | . 2336.00  |          |
|        | 0.020    | 77705     |              |              |      |        |               |            |          |

THEST SURBARY REPORT

|                   |   | firmen! | 7      | 10101           | ST. 1 . S                               | - | -         |   |     | FLENKEL AND AT STATE OF THE PROPERTY OF THE PR |   |   |   |     |          |
|-------------------|---|---------|--------|-----------------|-----------------------------------------|---|-----------|---|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-----|----------|
|                   | - | •       | , ,    | 9               | NO. I I A NO. I I J C                   | - |           | • |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - | 7 | - |     | SIKESS   |
| MATERIAL NJHBER : | 2 | Mer     |        |                 |                                         |   |           |   |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |     |          |
| Siens MAX         | - | •       | ~      | *               | .1001003 1 3 3 100                      | - | -         | - | 1   | 642+35 3 1 3 124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - | - | - | 121 | .12.6.08 |
| SIGHT AIN         | - | ~       |        | 77              |                                         | - |           | - | :   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - | - | • | 153 | 1956+05  |
| TAU 14.K          | - |         | ~      | 757             | £3+3640.                                | • | -         | - | 115 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - | • |   | 132 |          |
| LPS 444           | • | ~       | •      | 69              | .53+11                                  | • | -         | • | 25  | 19-7-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - | - |   | 111 | 91E-61   |
| EPS 114           | - | •       | ~      | .2.             | 530:1                                   | - | 3 3 3 137 | - | 137 | 94:-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - | - | - | 111 | 596E-01  |
| GAMM MAX          | • | •       | -      | 1 3 .24         | . 11. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ~ | -         | - | 115 | 3 3 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - | - | - | 13. | 136.1.   |
| TIME IN POST      | • |         | żt     | 2tb 5.0040S     |                                         |   |           |   |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |     |          |
| TINE IN STOP      |   | 1 .     | 22.537 | 122.537 S.COMDS |                                         |   |           |   |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |     |          |

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| SFINOCYL - STAR TO CYLINGRICAL BORY TRANSITION (I) | SRIUP*, SPRESURIS | SALUP*, SPRESURIS | STATE TO CYLINGRICAL BORY TRANSITION (I) | SRIUP*, SPRESURIS | STATE TO CYLINGRICAL BORY TRANSITION (I) | STATE TO CYLINGRICAL BORY TRANSITION (I) | STATE TO CYLINGRICAL STATE TO CYLINGRI
LINE DIRECT LIST OF INPUT DATA
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S3 SC.UZ,312,1, V.-3,582E-Z
64 SC.UZ,3,5,1, S.-3,682E-Z
65 SC.UZ,3,5,1, S.-3,682E-Z
65 SC.UZ,3,5,1, S.-3,692E-Z
66 SC.UZ,3,5,1, S.-1,686E-Z
67 SC.UZ,6,5,1, S.-1,686E-Z
68 SC.UZ,5,5,1, S.-1,686E-Z
78 SC.UZ,1,1,9, S.-4,77E-Z
78 SC.UZ,1,1,9, S.-4,77E-Z
78 SC.UZ,1,1,9, S.-4,77E-Z
78 SC.UZ,1,5,9, S.-1,636F-Z
78 SC.UZ,1,5,9, S.-1,636F-Z
78 SC.UZ,1,5,9, S.-1,636E-Z
88 SC.UZ,2,1,9, S.-1,636E-Z
88 SC.UZ,2,1,9, S.-1,636E-Z
88 SC.UZ,3,3,9, S.-3,78E-Z
89 SC.UZ,3,3,9, S.-3,78E-Z
89 SC.UZ,3,3,9, S.-723E-Z
89 SC.UZ,3,3,9, S.-723E-Z
89 SC.UZ,3,3,9, S.-723E-Z
89 SC.UZ,4,4,9, S.-4,362E-Z
99 SC.UZ,4,5,9, S.-4,362E-Z
92 SC.UZ,5,3,9, S.-362E-Z
93 SC.UZ,5,3,9, S.-362E-Z
93 SC.UZ,5,3,9, S.-362E-Z
94 SC.UZ,5,3,9, S.-362E-Z
95 SC.UZ,5,4,9, S.-362E-Z
95 SC.UZ,5,5,9, S.-362E-Z
96 SC.UZ,5,5,9, S.-362E-Z
97 SC.UZ,5,5,9, S.-362E-Z
97 SC.UZ,5,5,9, S.-362E-Z
97 SC.UZ,5,5,9, S.-362E-Z
97 SC.UZ,5,5,9, S.-362E-Z
 .643 SECONOS
TIME IN FFLOSS
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FLERENT SURRIRY REPORT

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|-------------------|----|-------|---|------|------------|---|---|---|-----|------------|---|----|---|-----|------------|
| RATERIAL MINGER = | 3  | . 436 |   |      |            |   |   |   |     |            |   |    |   |     |            |
| 115m 441          | *  | -     | 1 | 189  | .1816+13   |   |   |   | 11  | .1015 143  | - |    | • | 2   | 1766.83    |
| SIGN ATA          | ** | **    |   | 1116 | 21.382**-  | • |   | • | :   | 37 E - 12  | - |    |   | 71  | 36 56 - 82 |
| Tau 441           | -  | -     |   | n    | . 15 15 42 | * |   |   | 7   | . 34.86+82 |   |    |   | 4   | .986-82    |
| 17 541            | -  | -     |   | *    | 1975.48    | • |   |   | u   | 11975+11   | - | •  |   | =   | .1706.94   |
| 828 828           |    | -     | • | u    | 2816+61    |   |   |   | 183 | ** 253E+88 | - |    |   | 2   | S.K. H     |
| X75 14475         | •  |       |   | 11   | ****       | - | - |   | 7   | 165-11     | - |    |   | 1   | *****      |
| SATERIA WINEE :   | *  |       |   |      |            |   |   |   |     |            |   |    |   |     |            |
| 1150 MAI          |    |       | 1 | 113  | .W. JE +45 |   |   |   | 582 | . 3675+85  | * | -  |   | 22  | .3636+85   |
| SISM SIN          | *  |       |   | 283  | 1186+45    | • | - |   | 236 | 119.96     | • |    |   | 77. |            |
| 140 047           | •  | *     |   | 243  | *******    | • | • |   | 212 | .6775.45   | • |    |   | 312 | .6366-15   |
| EPS 481           | •  |       | 1 | 243  | 21-3462-   | • |   |   | 212 | .2118-12   | * |    |   | 382 | .2 EDE-62  |
| 124 243           | •  | ••    | 1 | 243  | 121£-62    |   |   |   | 277 | 3116       | * | •• |   | 982 | 1106-62    |
| CAMPA *422        | •  |       |   | 2113 | .55 SE-42  | • |   |   | 212 | 28-3255    | * |    |   | *** | .95 EE-12  |

MATINGO NOWER OF COARSE CATO ELEMENTS POSSIBLE = 16
MATINGO DI PERSION OF PEFINEE CATO = 1131

MUMBER OF SRID POINTS IN ANY ONE BIRESTIDS

| 16.00 mm m | 21.00.00  | 3864   | .12 X . 81  |           |            |
|---------------------------------------------|-----------|--------|-------------|-----------|------------|
|                                             |           | 1121   | ******      | . 5112+88 | E. E. !!!  |
|                                             |           |        | · Wither    | .193788   |            |
|                                             |           |        | 1286+61     | -         | 1113768.   |
|                                             | 116+61 15 | -      | 18-3281.    |           |            |
|                                             | ֡         | *1313  | .16%+61     | 30 3259 . | . 636.11   |
|                                             | 25.02     |        |             | 180.      | · pregertt |
|                                             | 12.01     | 58162  | 177.11      | 4         | .1286-51   |
| •                                           | #E+61 18  | £ 3205 | 1192811     | . 3636+61 | .1286+91   |
| •                                           | JE+10 19  | 58382  | 11.X.11.    | 11. 3611. | 11.3121.   |
|                                             | 12 11-36  | 11205  | . 1466 + 81 | .2445.    | 11.3621.   |

ELENENT SURBARY REPORT

|                  |                                                                       | -    | ELEMENT  |       | ELEMENT POINT |                                                    | 3   | ELENEM |   | E .      | STRESS      | -  | ELEMENT   |         |    | STRESS ELEMENT POINT STRESS ELEMENT POINT STRESS |
|------------------|-----------------------------------------------------------------------|------|----------|-------|---------------|----------------------------------------------------|-----|--------|---|----------|-------------|----|-----------|---------|----|--------------------------------------------------|
|                  | MATERIAL NUMBER -                                                     | 1    | - 436    |       | -             |                                                    |     |        | 1 |          |             |    |           |         |    |                                                  |
| SIGNA MAX        | HAX                                                                   | -    | •        | •     | 11            | .5316.0                                            | -   |        |   | 2        | .5316.04    | -  | -         | •       | •  | .3536.04                                         |
| SIGH HIN         | HIM                                                                   | -    | -        |       | 2             | 726E+84                                            | -   | -      |   | . 2      | 299E+84     | *  | -         | •       | 18 | 2556+84                                          |
| TAU MAX          | N.K.                                                                  | -    | -        | •     | 82            | . % 8 6 + 82                                       | -   |        |   | 22       | 20-3096     | -  | -         | -       |    | . ** OE- 02                                      |
| EPS MAX          |                                                                       | -    | -        | -     | -             | .197E+88                                           | -   |        |   | 22       | 1946.00     | -  | -         | •       | 2  | .1966.                                           |
| EPS HIN          |                                                                       | •    | -        | •     | 2             | 253E+00                                            | -   | -      |   | 3        | 2245.00     | -  | -         | •       | •  | 2646+11                                          |
| <b>CAMPA</b> MAX | ×                                                                     | -    | -        |       | 2             | .4156.00                                           | -   | -      |   | •        | .1156.00    | -  | -         | -       | 2  |                                                  |
| TIME IN POST     | 1504                                                                  | •    |          |       | 1.111 SECONDS |                                                    |     |        |   |          |             |    |           |         |    |                                                  |
| AX I ME          | MAXIMUM NUMBER OF COARSE OR TO ELEMENAMEM DIMENSION OF REFINED GRID = | 3 5  | REFINE   | 3 01  | LEWENTS I     | MAXIMUM NUMBER OF COARSE 6010 ELEMENTS FOSSIBLE =  | =   |        |   |          |             |    |           |         |    |                                                  |
| AKIMUM           | HUMBER O                                                              | 3    | 10 01    | 12 21 | ANY OM        | HANIMUM WUMBER OF GAIO POINTS IN ANY ONE DIRECTION |     |        |   |          |             |    |           |         |    |                                                  |
| COARSE           | GRID ELEMENT . 1<br>K J I X-COORD                                     | X-X  | MT . 1   |       | Y-C00R3       | 2-00080                                            | 300 | 1.5    |   | X-C00RD  | V-C00RD     | 2  | 2         | 2-00040 |    |                                                  |
| -                | 30101                                                                 | *    | .9.010.0 | :     |               | .463E+00                                           | 1   | 38382  |   | .1116.01 | . 221E+00   | :  | . 4635+1  | E+11    |    |                                                  |
| wm.              | 3838                                                                  | 12   | 1316-01  | . 2.  | .26E +01      | .4636.00                                           | ::: |        |   | 100      |             |    | 343       |         |    |                                                  |
| • • •            | 2011                                                                  | 27.5 | 12.00.1  | ::    |               | 1516.00                                            | 122 |        |   | 1306.01  | . 2786 • 60 | :: | 22.5      |         |    |                                                  |
|                  | 50303                                                                 | 1    | 1466.01  | 2.    | .201 E+00     | .8456+80                                           | 11  | 50105  |   | 136E+01  | •           | :  | . 052E+1  | 1       |    |                                                  |
|                  | 30102                                                                 |      | 1136.01  | •     |               | .4636.88                                           | 5   | 50305  |   | 1296-01  | . 2476      | :: | . 04.76.0 |         |    |                                                  |
| :                | 31203                                                                 | .132 | 1326+01  | 7     | .1316+90      | ·46 3E + 11                                        | 2   | 905    |   | .117E+01 | . 116E+00   | :  | . 05EE+11 | E+04    |    |                                                  |

FLENENT SUMMARY REPORT

| SIGNM MAX 3 3 57 .W76F+04 3 1 5 70 .296F+04 3 1 3 42 .Z79E+04  SIGNM MAX 3 3 57 .W76F+04 1 1 5 1413ZF+04 1 3 1 20 .03ME+01  TAU MAX 1 3 5 35 .968F+02 1 1 5 13 .33ME+02 1 3 5 20 .03ME+01  EPS MAX 3 3 5 35 .Z56F+00 1 1 5 13 .Z56F+00 1 3 5 20 .Z5ME+01  GANNM MAX 1 3 5 35 .A15F+00 1 1 5 13 .Z5F+00 1 3 5 20 .Z5ME+01  TIME IN POST 1 .139 SECONDS  TIME IN STOR 1 05.598 SECONDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |         |                        |             | - | - | * |    | ELEMENT POINT STRESS ELEMENT POINT STRESS ELEMENT POINT STRESS | -            | -            |              |           | SMESS                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|------------------------|-------------|---|---|---|----|----------------------------------------------------------------|--------------|--------------|--------------|-----------|--------------------------------|
| 1 3 5 153796+04 3 1 5 70 .2966+04 3 1 3 923796+04 1 1 5 141326+04 1 3 5 203796+04 1 1 5 141326+04 1 3 5 203966+05 1 1 5 13 .3966+05 1 3 5 203796+00 1 1 5 13 .3976+00 1 3 5 2032860005 1 1 5 13 .3976+00 1 3 5 2032860005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | m . | -       |                        |             |   |   |   |    |                                                                |              |              |              |           |                                |
| 1 3 5 15 -379F-04 1 1 5 14132F-04 1 3 5 20  3 3 3 5 968F-02 1 1 5 13 -334F-08 1 3 5 20  1 3 5 35 -224F-00 1 1 5 13176F-00 1 3 5 20  1 3 5 35 -419F-00 1 1 5 13 .357F-00 1 3 5 20  1 1 3 5 35 -419F-00 1 1 5 13 .357F-00 1 3 5 20  1 1 2 5 35 -419F-00 1 1 5 13 .357F-00 1 3 5 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | •       | 4                      | *****       | - | - |   |    | .2965.84                                                       | -            | -            |              | 7         | .278E+84                       |
| 1 3 5 35 .966F62 1 1 5 13 .134E02 1 3 5 20  3 3 3 59 .296F00 1 1 3 1 .197E00 1 3 5 64  1 3 5 35226E00 1 1 5 13176E00 1 3 5 20  - 1.109 SECOWOS  - 1.109 SECOWOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     | -       |                        | -,379€ + 64 | - | - |   | =  | 1 325 + 04                                                     | -            | -            |              |           | 1256.04                        |
| 3 3 3 5 9 .266F00 1 1 3 1 .197E+00 3 3 5 64  1 3 5 35224E+00 1 1 5 13176E+00 1 3 5 E0  1 3 5 35224E+00 1 1 5 13 .357E+00 1 3 5 E0  1 1.109 SECONDS  - 1.109 SECONDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3 2 | •       |                        | .9685+62    | - | - | • | :  | .9346.02                                                       | -            | -            |              |           | 346.02                         |
| 1 3 5 352286+00 1 1 5 131786+00 1 3 5 20<br>1 3 5 35 .4156+00 1 1 5 13 .3576+00 1 3 5 20<br>- 1.109 SECONDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | •       | •                      | .290E+08    | - | - | • | -  | .197E+80                                                       | •            | -            |              | \$        | .1036.00                       |
| 1 3 5 35 .419E+00 1 1 5 13 .357E+00 1 3 5 20 - 1.109 SECOMOS - 05.583 SECOMOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3 5 | •       |                        | 224E+00     | - | - | • | 2  | 1766+00                                                        | -            |              |              | 2         | 6766.00                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     | •       |                        | .415E+00    | - | - | • | 27 | .357E+00                                                       | -            | -            |              | 2         | .3576.                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ::  | es sec  | 500                    |             |   |   |   |    |                                                                |              |              |              |           |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -   | ** 3£ C | 5                      |             |   |   |   |    |                                                                |              |              |              |           |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |         |                        |             |   |   |   |    |                                                                |              |              |              |           |                                |
| TOTAL |     | 1       |                        |             |   |   |   |    |                                                                |              |              |              |           |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |         | 1.189 SEC<br>1.189 SEC |             |   |   |   |    | \$ 1 1 8                                                       | 1 5 1 1 5 13 | 1 5 1 1 5 13 | 1 5 1 1 5 13 | 5 1 5 1 1 | -4155-00 1 5 13 -3575-00 1 3 5 |

```
#ICOM SCOPE 3.4.2 MM SM 48 MXM R.D 14.27

15.25.84.1P #080857 MORDS - FILE IMPUT , DC 88

15.25.84.1P #080857 MORDS - FILE IMPUT , DC 88

15.25.84.7EMERY.YEMB.CRZEMBUS.ETUMBU.

15.25.84.1MITY (1888)

15.25.84.1MITY (1888)

15.25.84.1MITY (1888)

15.25.85.1MITY (1888)

15.25.85.1MITY (1888)

15.25.85.1MITY (1888)

15.42.31.1DSET (PRESET = ZERO)

15.42.31.1DSET (PRESET = ZERO)

15.44.31.1DSET (PRESET = ZERO)

15.44.10. STOP

16.44.10. STOP

18.44.10. STOP

18.45.10. STOP

18.46.10. STOP

18.47. STOP

18.4
```

## MODEL II

The finite element model II is shown in Figure 5. It was analyzed for both pressure and thermal loading. The TEXGAP-3D computer input and output is shown on the following pages.

Pressure Loading - Firing at -65°F

| Propellant                  | Case                              |
|-----------------------------|-----------------------------------|
| E <sub>p</sub> = 19,000 psi | $E_c = 3 \times 10^7 \text{ psi}$ |
| $v_{\rm p} = 0.499$         | $v_c = 0.3$                       |

pressure = 1425 psi

Corresponding end displacements are shown on computer input and referenced to Figure 6.

Thermal Loading (2 Weeks Storage at -65°F)

| Propellant                                                                         | Case                                                   |
|------------------------------------------------------------------------------------|--------------------------------------------------------|
| $E_{p} = 700 \text{ psi}$ $v_{p} = 0.499$ $\alpha_{p} = 0.000089 \text{ in/in/°F}$ | $E_{c} = 3 \times 10^{7} \text{ psi}$<br>$v_{c} = 0.3$ |

 $T_o = 140^{\circ}F$ 

Corresponding end displacements are shown on computer input and referenced to Figure 6.

The results of two analyses on Model II are shown on the following computer output sheets:

- pressure loading with two sequential rezoning computations, without any repositioning of element nodal points;
- thermal loading with two sequential rezoning computations, without any repositioning of element nodal points.

The first analysis, with rezoning near the cylindrical bore end of the transition (see Figure 5), yielded a maximum strain of 0.0260 in element 113 (IJK). The second analysis, with rezoning near the cylindrical bore end, yielded a maximum strain of 0.235 in element 113.

The following results consist of abbreviated computer output for both the first and second analyses. The first analysis is contained on pages 111 thru 124; the second analysis is contained on pages 125 thru 131.

#### LINE DIRECT LIST OF IMPUT DATA

```
1 SFINGCYL - STAR TO CYLINORICAL SORE TRANSITION (II)
2 SETUP.6.PRESCRIB
3 ISO.PROPELLANT.1.1.964..699
6 ISO.CASE.27.3.E7..3
1 STUNCYL - STAR TO CYLINORICAL SOME TRANSITION (III)
2 SETUPACYPRESCRIES
3 ISO. PROPELLANT.1.1.80 4.099
1 ISO. CASO. PROPELLANT.1.1.80 4.099
1 ISO. CASO. PROPELLANT.1.1.80 4.099
2 SHO. HATERIALS
8 SHOMECT.1 1.1.1.7 5.3.2 SPROPELLANT MODES
7 .94.8.8.2.407.8.8.2.291.8.291.8.6.0..86..33.8.
9 18.2.438.2.22.8. 12.913.2234.8.18.2.33..402..603.28..913..223..603
9 18.2.438.2.22.8. 12.913.223.8.18.2.33..602..603.28..933..123..603
9 18.2.438.2.22.8. 12.913.223.8.18.2.33..603..603.28..933..123..603
11 0.0CK-C.1. 1.3.1.5.5.3 SPROPELLANT MODES
12 .80.33..603.2.201..60.643.1.736.1.736..423..605..605..603..603
12 .12.13.1.112.8. 12.758.1.736..1.736..423..605..605..603..603
13 .80.33..603.2.201..60.643.1.736.1.736..423..605..605..603..603
14 .12.13.1.112.8. 12.758.53.2.8.18.1.356..423..605..603..603..603
15 .12.13.1.112.8. 12.758.53.2.8.18.1.356..423..605..605..603..603
16 .0CK-C.1. 1.1.3. 5.3.7 SPROPELLANT MODES
17 .94.0..403.2.404.0.403.2.221..60..603..80..331..602
18 .10.2.331..1042.2.201..001.2.231..001.3.131.139..0037
19 .10.2.331..1042.2.201..001.2.231..001.3.131.139..0037
10 .10.2.331..1042.2.201..001..002.131.1042.2.2777..588.1.002/
12 .24..933..122.1.992.2.201..001..002.131.1042.2.201..001..002.2.201..001..002.2.201..0
```

```
$3 MRTCRH.I. 1.1.1 $ FROMELLARY ELEMENTS
4. JEND
45 JEND
46 KEND
46 KEND
47 KLOOP.A
58 JEUGERS. 5.1.1 $ CASE ELEMENTS
71 KEND
72 KLOOP.B
73 KLOOP.B
73 KLOOP.B
74 KEND
75 KLOOP.B
75 KLOOP.B
75 SC.SLOME.1.1.1. $ $ $ OFERRE FACE
75 SC.SLOME.1.1.1. $ $ $ OFERRE FACE
77 KEND
77 KEND
77 KEND
78 KLOOP.B
18 JEOD.B
18 JEND
18
```

```
129 SULVE
136 POST
131 BLOCK
132 OPTION.2
133 ENO.POST
135 REFINE.GRADS.1:1.3, 2,2,2
136 OCR.REZONE.1:1.3, 2,2,2,2,2,2,2,2,1,1,3
137 ENO.CONTROL
138 SOLVE
139 POST
140 BLOCK
141 OPTION.2
142 ENO.POST
143 REFINE.GRADS.1:1.3, 3,3,5
144 REFINE.GRADS.1:1.3, 2,2,2
145 OCR.REZONE.1:1.3, 3,3,5
144 REFINE.GRADS.1:1.3, 2,2,2
145 OCR.REZONE.1:1.3, 2,2,2
145 OCR.REZONE.1:1.3, 2,2,2,2,2,2,2,1,1,3
146 ENO.CONTROL
147 SOLVE
148 POST
149 GLOCK
150 OPTION.2
151 ENO.POST
152 STOP

TIME IN FFLOSD = 1.132 SECONOS
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| MITCH MITCHES NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MO. LYPE            | -   | -          | *               |               | 7            |        | -   | *              |              | 7             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|------------|-----------------|---------------|--------------|--------|-----|----------------|--------------|---------------|
| WITCH MITGHT NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |     |            |                 |               |              |        |     |                |              |               |
| HELDON MITGRIAL NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     | -   | _          | 10.30%          |               |              | 2      | -   | 18.3621        |              |               |
| ### Control of the co                                                                                                                                                                                                                                                                                 |                     | •   | -          | . 10 46 + 61    |               |              | 2 1    | -   | . 4296         | -            |               |
| ## Company of the control of the con                                                                                                                                                                                                                                                                                 |                     | -   | ,          | 1845481         | . 586.        |              | -      | ~   |                | :            | · 232E+       |
| ## Committee of the com                                                                                                                                                                                                                                                                                 |                     | -   |            | 10+300°         | . 330E+00     |              | -      | ~   | .1695 +01      |              | . 2326 + 01   |
| ## COLOR MATCHIAL NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     | -   | -          | .9438489        | -             | · 66 35 + 00 | 2      | 2   | . I SUE GEL    | . 505E+11    | . 2326 + 11   |
| MATCH MATCHIAL WO. 1 1 2 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 1977 1 197                                                                                                                                                                                                                                                                                 |                     | •   | -          | 11696+81        |               | . 663E+00    | 1 3    | ~   | . 1005 +11     | . 380E+00    | . 232E+01     |
| STATE   STAT                                                                                                                                                                                                                                                                                   |                     | •   |            | 16.60           | Cutter Be     | 116.35+41    |        |     |                |              | . LE 3F + B   |
| ### COLUMN TERIAL WO. 1 1 3 1 100 FC 10 1 1 2 2 5 1 100 FC 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | •   |            |                 | 110           | 46 15 400    |        |     |                | . 1626. 60   |               |
| ## COLOR MATCRIAL NO. 1 1 2 1 1000 F 10 1 10 10 10 10 10 10 10 10 10 10 10 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     | ••  |            |                 | -             |              |        | ••  |                |              |               |
| ## CONTRICTOR NATURALA NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | -   |            | 1676.01         | 302 F + 88    |              |        | ,   |                | 16.06+00     | 16.36         |
| 1   1   1   1   1   1   1   1   1   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |     | -          |                 |               |              | •      |     |                |              |               |
| ## Company of the com                                                                                                                                                                                                                                                                                 | BRICKH MATERIAL     | 1   |            |                 | . 330E+00     |              | 5 2    | -   | . 981E+00      | .981E+ 00    |               |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | •   | <b>-</b>   | 1998+81         | . 595 E+BB    |              | -      | -   | . 791E+M       | .5 87E+ 86   |               |
| ## Comparison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     | •   |            | .120E+81        | . 120E+01     | :            | 1 3    | 2   | . 600E + 66    | . 360E+06    | . 2326+00     |
| ### Color Harrella, Wh. 1   3   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1   1,000   1                                                                                                                                                                                                                                                                                  |                     | -   | •          | . 6652+80       | . 8692.       |              |        | ~   | . 1595+81      | . 595E+88    | . 232E + 11   |
| ## COLOR MATERIAL NO. 1 1 1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 1987   1 19                                                                                                                                                                                                                                                                                 |                     | •   |            | 10.300.         | . 330E+06     | .4636+00     | 3 8    | ~   | .1206+01       | .120E+01     | . 232E+00     |
| ## CONTRICTOR NATIONAL NO. 1   1   1   1   1   1   1   1   1   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | -   | -          | 1848611         | Blaashs.      | . 46 3E + 80 | -      | 2   | . 665E +18     | . 6652.      | 12526.        |
| DRICKH MATERIAL WO. 1 1 120001 1 130000 1 1 1 120001 1 1 130000 1 1 1 120001 1 1 130000 1 1 1 130000 1 1 1 120001 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | n   | •          | 11505+01        | . 128 6 . 0 1 | . 46 35 + 90 | 2      | •   | . 1236+01      | . 1636+88    | . 4636+0      |
| ## 1 12   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     | -   | •          | . 1692.00       | . 665 6 . 61  | . 4636+00    | •      |     | 11 E. H.       | .913E+00     |               |
| ## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     | 2   |            | .1236+01        | . 4636+00     | •            | ~      | •   | . 981E+00      | .981E+00     |               |
| ### CONTRICTAL NO. 1 1 1 1992   1 1 1992   1 1 1992   1 1 1992   1 1 1992   1 1 1992   1 1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 1992   1 19                                                                                                                                                                                                                                                                                 |                     | •   |            | .1056+01        | . 91 36 . 0   |              | -      | •   | . 791E+00      | .9072.00     | . 4636 - 00   |
| BRICKH MATERIAL MO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |     |            |                 |               |              |        |     |                |              |               |
| BRICKH MATERIAL MO. 1 1 3 1 128701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 1 187701 1 187701 1 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 187701 1 18770                                                                                                                                                                                                                                                                                 |                     |     |            | 1002601         | :.            |              | ••     | ٠.  | 100000         | 1105.10      | :.            |
| 1   1   1   1   1   1   1   1   1   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |     |            |                 |               |              |        |     |                |              | . 2526 4 80   |
| 1   1   1   1   1   1   1   1   1   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     | . • |            | 10.36.33        | 200           |              | •      |     |                | : .          | 23620         |
| STEEL   STEE                                                                                                                                                                                                                                                                                   |                     |     | , .        | 1000001         |               | *******      |        |     |                |              | 2326          |
| BRICKH MATERIAL WG, 1   1   2787070   10587070   5   1   1   1   1   1   1   1   1   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     | •   |            | 10 - 20 CE - 01 |               | 46.15.00     |        |     | 1806 481       |              | 9126 .        |
| BRICKH MATERIAL WG. 1 3 3 1.59E+01 599E+01 6.5E+01 6.5E+01 1.5EE+01 1.5EE+0                                                                                                                                                                                                                                                                                 |                     |     |            |                 | . 8445.88     | 10000        | -      |     |                |              |               |
| BRICKH MATERIAL WO. 1 3 3 .194E911 .437E910 0. 3 5 1 .194E911 .772E91 .33E910 0. 3 5 1 .194E911 .172E91 .33E910 0. 3 5 1 .194E911 .194E911 .39E910 0. 3 5 1 .194E911 .194E911 .495E910 0. 3 5 1 .194E911 0. 3 5 1 .194E911 .394E910 0. 3 5 1 .194E911 .394E910 0. 3 5 1 .194E911 0. 3 5 1                                                                                                                                                                                                                                                                                  |                     |     | . 10       | 159E+01         | . 595 E+ 00   | .463E+00     |        | , m | 2416+01        | . 4 B7 E+ 86 | . 4636+00     |
| BRICKH MATERIAL WG. 1 3 1 .15fc+01 6.37fc+00 6. 3 2 3 .167fc+01 .35gc+00 6. 3 4 1 .15fc+01 .35gc+00 6. 3 5 1 .15fc+01 .35gc+00 6. 3 6. 3 6. 3 6. 3 6. 3 6. 3 6. 3 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | •   | -          | 10+3/02         |               | -            |        | •   | 1945+81        | .720E+B0     | 636 . 01      |
| BRICKH MATERIAL WG. 1 3 3 1 .159E+01 .595E+00 0. 6 5 1 .146E+01 .146E+01 .146E+01 .146E+01 .146E+01 .146E+01 .175E+01 .1                                                                                                                                                                                                                                                                                 |                     | •   | 2          | .241E+01        | .437E+88      | •            | 3      | •   | .167E+01       | .302E+00     | . 463E+88     |
| BRICKH MATERIAL WG. 1 1 1 3 .940E+01 0. 463E+01 7 3 4 1 127E*01 1312E*01 0. 463E+01 7 3 7 1 127E*01 1312E*01 0. 463E+01 7 3 7 1 127E*01 1312E*01 7 3 7 1 127E*01 1312E*01 7 3 7 1 127E*01 1312E*01 7 3 7 1 127E*01 131E*01 7 3 7 1 131E*01 131E*01 7 3 7 1 131E*01 131E*01 7 131E*01                                                                                                                                                                                                                                                                                 |                     | •   |            | 505             | ROSEADO       |              | •      |     |                |              |               |
| State                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | מעוכעם משובעם בעיור |     | , ,        | 1843622         | 8843668       |              |        |     | 1863281        | 91354        |               |
| BRICKH MATERIAL NO. 1 1 3 5 1000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |     |            | 1735+81         | 1735+01       |              |        |     | 1505 +61       |              | . 2325 + 68   |
| 3   3   3   159E+01   595E+00   645E+00   5   5   2   179E+01                                                                                                                                                                                                                                                                                      |                     |     |            | 1202+01         | . 1285+81     |              |        |     | 25.35 + 61     | . 1596.11    | . 2 32 2 + 60 |
| 9 3 3 12222401 15252400 4 3 5 12262401 1226200 5 5 5 12562401 1266200 6 5 5 5 12562401 1266240 6 5 5 5 12562401 1266240 6 5 5 5 12562401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 12662401 1                                                                                                                                                                                                                                                                                 |                     | m   |            | 11596+01        | . 595 E+80    | . 463E+80    | 8      | ~   | .178E+81       | .173E+81     | . 232E+00     |
| State   Stat                                                                                                                                                                                                                                                                                   |                     |     |            | 10+3632         | . 859E+80     | . 4636+04    | 8      | ~   | . 1205-01      | .1205+01     | . 2326 + 88   |
| BAICKH MATERIAL MG. 1 1 1 3 .940E+00 0. 463E+00 1 2 3 1466E+01 148EEP1 493E+00 5 4 3 1466E+01 148EEP1 493E+00 6 5 3 1466E+01 146EEP1 6 5 5 5 5 1466E+01 146EEP1 6 5 5 5 5 1466E+01 146EEP1 6 5 5 5 5 1466E+01 148EEP1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     | •          | 1736+01         | .173E+01      | . 463E+08    | •      | 'n  | . 194E+01      | .720E+80     | . 4638+11     |
| 6 3 1 .194E+01 .72E+00 0. 6 5 3 .146E+01 .146E+01 0. 6 5 3 .146E+01 .146E+01 .146E+01 0. 6 5 0. 146E+01 .146E+01 0. 6 5 0. 146E+01 0. 146E                                                                                                                                                                                                                                                                                 |                     | 6   |            | 10.3021         | 1843821       | . 463E+88    | -      | 3   | 1643902        | 11432811     | . 4632.       |
| BRICKH MATERIAL NG. 1 1 3 .946E+00 8463E+00 2 3 3 .120E+01 .451E+00 3 4 3 .120E+01 .451E+00 3 4.05E+00 1 2 3 3 .120E+01 .451E+00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     | •   | <b>m</b>   | . 194E+01       |               |              | 4      | •   | . 146E+01      | .146E+11     | . 6636+       |
| BRICKH MATERIAL WG. 1 1 1 3 .948E+88 8463E+88 2 3 3 .129E+81 .463E+88 4.63E+88 4.                                                                                                                                                                                                                                                                                    |                     | •   | •          | . 206E+01       |               | •            | *<br>n | *   | . 1 4 22 + 61  | . 9132+88    |               |
| 3   1   3   1.50E+01   0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BRICKH MATERIAL MG. | -   | 1          | 949E+00         |               | .463E+00     | 2      | **  | . 1 P. SE + 81 | . 4635+88    | . 663E+00     |
| .9995-00 .463E-00 1 1 4 .127E-01 033E-00 .463E-00 3 1 4 .150E-01 0118E-01 3 3 4 .150E-01 034E-00 .128E-01 1 3 4 .000E-00 .380E-00 .380E-01 033G-00 .128E-01 2 1 5 .106E-01 033G-00 .128E-01 3 2 5 .106E-01 .346E-00 033G-00 .128E-01 3 2 5 .126E-01 .346E-00 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | •   | -          | 1696+01         |               | .463E+00     | 1 2    | •   | . 925E+88      | .168E+00     | . 4635+00     |
| .3386+04 .463E-20 3 1 4 .1866+01 0.<br>1.1866+01 3 1 4 .1866+01 0.<br>1.3566+01 .1866+01 1 3 4 .1816+01 0.<br>1.3566+01 .1866+01 3 2 5 .1816+01 0.<br>1.3566+01 .1866+01 3 2 5 .1816+01 0.<br>1.3566+01 .1866+01 0.<br>1.3566+01 .1866+01 0.<br>1.3566+01 .1866+01 0.<br>1.3566+01 0.<br>1.356 |                     | -   | -          | . 1998+01       | . 5995+80     | ******       | 1 1    | -   | 1275+01        |              | . 842+8       |
| 0110E+01 3 3 4 .150E+01 .505E+00 .505E+00 .505E+00 .305E+00 .305E+01 2 1 5 .105E+01 3.30E+00 .305E+01 3.505E+01 3.505E+01 .505E+01 3.505E+01 3.                                                                                                                                                                                                                                                                                    |                     | -   |            | \$0+3899°       | . 330E+00     | . 463E+88    | 3      |     | . 196E+01      |              | . 636E+B      |
| 8-595E+00 .119E+01 1 3 4 .000E+00 .300E+00 .300E+00 .200E+01 3.2 5 .100EE+01 .346E+00 .346E+01 .446E+01 .446E+0                                                                                                                                                                                                                                                                                 |                     | -1  | -          | .160£+01        | :             | .116.11      | 8      |     | . 1596+81      | . 505E+00    | . 633£+00     |
| .595E+00 .120E+01 2 1 5 .101E+01 0.<br>.330E+00 .120E+01 3 2 5 .106E+01 .346E+00<br>1.330E+00 .220E+01 .346E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | m   |            | . 202E+01       | :             | .118E+01     | 1 3    |     | . 860E+88      | . 380E+00    | . 0 33E+ 00   |
| 0.330f+08 .120f2+01 3 2 2 .106f+01 .54af+00 6+05 6+06 6+06 6+06 6+06 6+06 6+06 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | •   |            | 11596+01        | . 595E+88     | .120E+01     | 2      | •   |                | :            | . 117E+01     |
| 00+3294* 10+3641* 6 6 3 00+3694*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | -   | <b>6</b> 0 | 10+388+00       | . 330 E+06    | .1205+41     | 3 5    | •   | . 1966+61      | .3466+88     | . 1196+81     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | -   |            | 100000          | -             | · 463E+00    | -      | -   | 18080          | -            | 120201        |

| NO. TYPE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   | -          | ~          |               |              |              |          | •        |   |               | •            | ,            |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|------------|---------------|--------------|--------------|----------|----------|---|---------------|--------------|--------------|
| 6 BRICKH | WATERIAL WO. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1   | -          | -          | . 8 8 95 + 00 | . 330E + 00  | .463€+00     | 2        |          | - | . 931E + 88   | .98184       | . 46 35 + 11 |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | -          | -          | . 159E+61     | . 595 F+ 00  | . 46 3€ +00  | •        | ,        | - | . 7916 +48    | . 587E+ 88   |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |            | •          | .1206+01      |              | . 46 3€ + 00 | -        | -        |   |               | . 3805.08    |              |
| 4        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   |            | •          | . 665E+00     |              | . 4636+00    | •        | •        |   | . 1596 + 11   |              |              |
|          | The second secon | -   | •          | •          | . 8886 + 08   |              | 1506+01      | •        | •        |   | 100 3021      |              |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m   | m          | •          | .1596+01      | . 595 E+00   | . 1206 - 01  | -        | •        |   | . 665E+00     |              |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m   | •          | •          | .1206+01      |              | . 1286+01    | ~        | •        | • | .1236 +01     | ******       |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | <b>w</b> 1 |            | .665E+00      |              | 1206+01      | <b>n</b> | •        | 5 | 1425+01       | . 91 3E+ 00  |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~ ~ | ,          |            | 1236 + 01     |              | 00.35.00     | ~ •      | •        |   | . 9316        |              | 12021        |
| -        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            | ,          | 10033610      | - 1          |              |          | •        |   |               |              | 10.7621.     |
| 7 BRICKH | MATERIAL NO. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •   | -          |            | .1695 + 01    |              | .463€ + 80   | •        | •        |   | . 1946 • 01   | .7 E BE + 00 | . 4636+00    |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |            | <b>m</b> ( | .245E+81      | •            | .4636.00     | •        | ~        |   | . 167E . 01   | . 3026.00    | . 163E - 88  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | -          | <b>m</b> 1 | .2296+01      | . 659E+00    | . 46 3E + 00 | •        | -        |   | . 1 06E +01   |              | · · · ·      |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            | 2025401       | . 292        |              | •        |          |   | . 2496.91     |              | . 8336 + 68  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            | 10.2707       |              | 1100011      |          |          |   |               |              | 335          |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            | 2296+01       | . ASSF. B.   | 1205-01      |          | , .      |   | 2006 401      |              | 1196.0       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | •          |            | 1596+01       |              | .1285.01     | •        |          |   | 2416 +81      |              |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | -          |            | . 207E+81     | -            | . 4636 + 80  |          |          |   | 1 36 5 40 1   | .720.        |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | ~          | m          | .2416+01      | .4376+10     | . 46 35 . 00 | •        | ~        |   | . 1866 -01    | .3465.       | .1196.01     |
| 40.70.01 | ***************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | •   | -          |            | 100001        |              | . 6436+86    |          | +        |   |               |              |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | n          |            | . 229E+81     | . 8536+88    | .4636+80     |          |          |   | 16.56.31      | 9136.00      | .636.        |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | •          |            | .1736+01      | .1736+01     | . 4636+00    | -        | •        |   | . 199£ +01    | .9896.       | . 8335 - 88  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | •          | m          | .1205+81      | .128E+81     | . +63E+00    | •        | m        |   | . 2296 +81    | . 1596+ 11   | . 6336+00    |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | •          | •          | . 1596+01     |              | .120E+01     | •        | •        |   | .178E+11      | .1736+01     | . 633E+00    |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | m (        | <b>.</b>   | . 229E+81     | . 659 E+00   | . 120€+01    | m .      | · ·      |   | .1206+01      | 1506+01      | . 0336+00    |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            | 1206+01       | 12060        | 1206 +01     | •        | <b>,</b> |   | 206640        |              | 12021        |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |            |            | 1 96 5 + 81   | 7246+00      | 10.3631      | •        |          |   | 100000        | 10.75        |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            | m          | . 206E+01     | .132E+01     | . 463E+BE    |          |          |   | 14.25.41      | .9136-00     | 1206+01      |
| S RETCKH | HATERIAL MO. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •   | -          |            | 1605+01       |              | .1166+01     | •        | ~        |   | . 1976        | .462544      | 1996.        |
|          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | +          |            |               | 1            |              | +        |          |   |               |              |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | 100        |            | .159E+01      | . 595 €+ 80  |              | -        | -        |   | . 1906+01     |              | 1506+01      |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   | •          |            | . 666E+00     |              |              | •        | -        | • | . 2176 441    | :            | . 1966+81    |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | -          |            | .215E+01 0.   | •            | . 194E+81    | m .      | m        | • | . 1596+01     | . 595E+ 00   | . 1576+01    |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m . | ٠,         | - •        | .238E+81 3.   |              | 19461        |          | m .      | • |               | . 3886 .     | . 1576+01    |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |            |            | 1596+01       | . 2952 - 00  | 136          | ~ ^      |          |   | 104 3222      |              | 1946.        |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            | 1416 + 01     | -            | 1175461      |          |          |   | 1985 481      |              |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | ~          |            | . 1 06E+81    | . 3466+00    | .1196.01     |          | ~        |   | . 1606 +01    | .365€+00     | 1946.        |
| 20000    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            |               |              |              | •        | •        |   |               |              |              |
| -        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            | 1 8 05 4 01   | . Kok 6 + BA | 1206 401     |          | ٠.4      |   | 7015400       |              |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            | 200           | 2000         | 10000        |          |          |   | 1             |              |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |            |            | . 665F+00     | . 665 F + 88 | . 120F+81    |          | ) M      |   | 1505 -41      | 1946-00      |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |            |            | . 6605+00     | . 338 E+00   | 19461        |          |          |   | 1006          | 1606.01      |              |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P)  | 1          |            | . 159E+81     | . 595E+00    | . 1946+01    | -        |          |   | . 665F+98     | .6656+00     | 1576.01      |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~   | •          |            | .120E+01      | .120 €+01    | 19461.       | ~        | m        |   | . 1 PBE + 0.1 | . 463E+00    | 196. E.      |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   | ~          | -          | . 665 8 + 08  | · 665E+80    | .19461.      | •        |          | 1 | 1426+01       | . 91 36 + 00 | . 1945 - 81  |
|          | and the same of th | -   | *          | 4          | -1235 +01     | 4625400      | 1205+01      | •        |          | - | 4815+00       | -02050       | 1000         |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1   |            |            |               |              |              |          |          |   | 3700          | -            |              |

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| THE RESIDENCE WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | The state of the s |     | -   | 1814287     |                                         | 11186.001   | •    | -   |       | . 1845 981    | 27. FEE . BB                            | . 1285 . 81   |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |     | 2466401     |                                         | 1285-01     |      |     |       |               | 34.00                                   |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |     | 2296.81     | 81 . ASSF.00                            | .1205+81    |      |     |       | •             |                                         |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |     | 11506.01    |                                         | .1206+61    |      |     |       | . 2456        |                                         | 1576.01       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   |     | 2786411     |                                         | TORETHE     |      |     | -     | ٦             | 18 7 5 B 1                              |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |     | 2456481     |                                         | 1846        |      |     |       |               |                                         |               |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |     | 100000      |                                         |             |      |     |       |               |                                         |               |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | . ~ | 10+31+2.    |                                         | .120€+01    | · m  | , 2 | .20   |               |                                         | 19.5.01       |
| 12 BOTCKH MATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |     | 1596.       | 11 . 596F+ 10                           | .1285+81    | •    |     |       | . 1465 481    | 1465.01                                 | 1205.00       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |     | .229F+B1    |                                         | .1286+81    | •    |     |       |               | 91.35                                   | 1786          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |     | 1776+81     |                                         | 1285+81     |      |     |       |               |                                         | 1676          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |     | .1202+01    |                                         | . 1286 + 61 |      |     |       |               | 10596.88                                | 1976.         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |     | .1596+01    |                                         | . 1946 + 01 | •    |     | •     |               | .1736+01                                | . 157E+ 01    |
| The same of the sa | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •   | 3   | 18+3622     | 1                                       | 1042461.    | 3    | 3   | -     | i.            | 1843121                                 | 1812/21       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |     | . 173E+01   | 11. 1736+81                             | .194E+81    |      | 3   |       | . 1948+81.    | .7 285+ 88                              | 19461.        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | •   | 11202+01    |                                         | .1948+01    | •    | •   |       | . 205E+01 .   | 18+3281                                 | 19.3461.      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | ,   | 18+3+61.    |                                         | . 1205.01   |      |     | ***   |               | 10.3941.                                | . 1946.81     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | •   | 10.3902.    | 11.1326.01                              | . 1206 . 61 |      |     | .162  | . 11.22.11.   | .9136+88                                | . 1946 . 11   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |     |             |                                         | 100000      | -    | -   |       |               | *************************************** |               |
| 13 841040 1415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |     | .2306+01 0. |                                         | 1005.01     |      |     | 116   |               | 1466                                    |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |     | .1596.01    | 11 .995                                 | .1946.      |      |     | . 215 | •             | -                                       | .2176.81      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   |     | . 680E+80   |                                         | .1946+81    | m    | 1   | .28   | . 280E+81 8.  |                                         | . 217E+81     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   | -   | . 2156+81   | -                                       | .2416+81    | n    |     | .15   |               | . 5895. 88                              | . 2176.01     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | -   | 10.230E+01  | -                                       | .2416+01    | -    | 2   |       |               | . 3805+00                               | .2176+01      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •   |     | 1998401     |                                         | 1843192 .   | 2    | -   | 122.  | . 22EE +41 6. | -                                       | 1843182       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   |     | 880E+88     |                                         | .2416.01    | •    | 2   | .20   |               | .394E+88                                | .2416+81      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2   | -   | .22224-81   | •                                       | 1946.01     | 2    | n   | 121.  |               | . 46 35 + 03                            | . 2416 + 81   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | ~   | .20%E+01    | 11 .394E+00                             | .1946.01    | -    | 2   | .16   | . 160E+01.    | .365E+00                                | . 2 41 E + 01 |
| 14 PRICKH HATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HATERIAL NO. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -   |     | . 888E+11   | . 330 €+00                              | .1946.01    | 2    | 5   | .93   | 931E+00       | . 3 31E . 00                            | 19461         |
| the same cases in the same age of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | •   | 1998401     | 1                                       | 10.3%11.    | -    |     |       | 1             | .987298                                 | 1942081.      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | •   | 11205+01    |                                         | .1946+01    | -    | -   |       | _             | . 3606+00                               | .2176+01      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   | •   | . 6652+10   |                                         | 19461.      | n    | -   | .15   |               | . 5 8 5 5 + 10                          | .2176.11      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | m 1 | . 668E+0    |                                         | 10+3142.    | m .  | 5   | 121.  |               | .120E+01                                | . 2176 . 01   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |     | 11996411    |                                         | 10+3162.    | -    |     |       |               |                                         | . 2176.       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   | •   | .120E+01    |                                         | 10.24162.   | 2    | ,   | .12   |               | . 463E+                                 | . 241E.       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - • |     |             |                                         | 10.2167     |      |     |       | . 142241      | 1136                                    |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |     | .1426+01    |                                         | .1946.01    |      |     |       |               | .5 07 E + 80                            | . 2416.01     |
| 2744 44776                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •   |     | 2305401     |                                         | 1046.01     | •    |     | •     |               | 7005.00                                 |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |     | 2456401     |                                         | 1945+81     |      |     | . 28  |               |                                         |               |
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| 15 GRICK MATERIAL NO. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PERSONAL HAMPHONDHA HAM                              | 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | . 595E + 00<br>. 173E + 01<br>. 120E + 01 | .1946.01     | , ,,, |     |     | 14.26 -91    | .146E+B1<br>.913E+00 | 1986.        |
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| SRICK MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PERDERNA HAMMANDEN HAM.                              | 7.2246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7.246.01<br>7. 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| SRICK MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| SRICK MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| BRICK MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| BRICK MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|                                           | . 241E+01    | •     | •   |     | . 120E+31    | .10.3031.            | .217E+01     |
| SRICK MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| SRICK MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| BRICK MATERIAL MO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| MATCRIAL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| MATERIAL WO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| MICHINE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| naferiat 40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 20 BRICK MATERIAL MO. 2 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                       |                                           | .120E+61     | 1     |     |     | . 212F +91   | . 186E+01            | . 128E+81    |
| The first material control of the temperature of the second of the secon | *                                                    | *5356+01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | . 6725+80                                 | ****         | •     | 5   | -   | -1 76E+01    | *176E+01             | *120E+01     |

| ELEMENT | 122           |                                         |   |   | -        |   |              |             |             |     |      |     |     |                                         |                                        |              |
|---------|---------------|-----------------------------------------|---|---|----------|---|--------------|-------------|-------------|-----|------|-----|-----|-----------------------------------------|----------------------------------------|--------------|
| .0.     | TAPE          |                                         |   |   | -        | ¥ | *            |             | ~           |     | -    | -   | *   | *                                       |                                        | 7            |
| -       | No. of London | WATERIAL NO.                            |   | 2 | 3        | 3 | .2498+01 0.  |             | I TZUE + UI | -   | 9    | -   | 2   | 10+3482.                                | . 87ZE+ BB                             | 14.3821.     |
| :       |               |                                         |   |   | 7        |   | .252E+01 0.  | :           | . 120E+01   | -   |      | 2   |     | . 241E +01                              | .487E+ 88                              | . 120 6 + 01 |
|         |               |                                         |   |   |          | • | .236E+01     | . 884 E+ 00 | . 120E+01   | -   |      | -   | •   | . 245E+B1                               | :                                      | .157E+ 01    |
|         |               |                                         |   |   |          |   | 22295+81     |             | . 120E+01   | -   | -    | -   | 9   | . 25PE+81                               | •                                      | . 157E+ B1   |
| -       | -             | -                                       | - | - |          | - | 1004572      | Г           | 196E+B1     | -   | 1    | -   | 9   | . 286E+B1                               | · KBLE+DD                              | LISTEAN      |
|         |               |                                         |   |   |          |   | 2525+01 0.   |             | 1945+81     | -   | 5    | -   | •   | . 2296+81                               | .859E+88                               | 1575+81      |
|         |               |                                         |   |   |          |   | .236E+01     | . 884 E+88  | . 1946+81   |     | •    | -   | -   | . 2486+81                               | :                                      | . 194E+ 81   |
|         |               |                                         |   |   |          |   | 229F+01      |             | 1946+01     |     | 1    | 2   |     | . 246E+81                               | .4496+00                               | . 194E+ 81   |
|         |               |                                         |   |   |          |   | 2 6 RF + 81  | -           | 120E+01     | -   | 9    | -   | 1   | . ZBPE+81                               | . 872 E+ 88                            | 1945+81      |
|         |               |                                         |   |   | 7        |   | . 248E+01    | ****        | . 120E+81   | 1   |      | 2   | 1   | . 241E+01                               | . 467E+00                              | . 1946+01    |
|         | 77450         | CM IATEDIAN                             | 9 |   |          |   | 2295+81      | . 4536+00   | -120F+01    |     | •    |     | ď   | . 176F+81                               | -1765+81                               | .1286+81     |
| 77      | 40110         | MAICHT                                  | • | • |          |   |              |             |             |     |      |     |     | 2065481                                 |                                        |              |
|         |               |                                         |   |   | . 1      |   | 10.3067.     |             | 1000        |     |      |     |     |                                         | 10000                                  |              |
|         |               |                                         |   |   |          | • | .1/8E+01     |             | 17021       |     | ۸, ۱ |     | ۰,  |                                         |                                        | 12/61        |
|         |               |                                         |   |   | <b>.</b> |   | .173E+01     |             | . 120E+01   | _   | 1    | -   | •   | . 2 38E + 11                            | . 884E+88                              | . 137E+ 11   |
|         |               |                                         |   |   | 5        |   | .229E+01     |             | . 1946+01   | -   | ^    | ~   | 9   | .178E+11                                | .178E+01                               | . 157E+ 11   |
| -       | -             |                                         | - | - | 7        | 1 | .236E+01     | 1           | 1965.01     | 1   | 5    | 2   | 9   | 1178E+B1                                | 11736+81                               | . 157E • UI  |
|         |               |                                         |   |   |          |   | .178E+61     | .178E+01    | . 1946+01   | -   | •    | •   | -   | . 282E +01                              | .872E+11                               | 19461        |
|         |               |                                         |   |   |          |   | . 1738+01    | .1735+81    | . 1942+01   | ,   | 1    |     | •   | . 21.2E + 81                            | .1 86E+01                              | . 194E+11    |
|         |               |                                         |   |   | 9        | • | . 232E+01    | . 672E+00   | . 120E+01   | -   | •    |     | -   | 175E+81                                 | .176E+01                               | . 19 E+81    |
|         |               |                                         |   |   |          | • | . 212E+01    |             | . 120E+01   |     | •    |     |     | . 206E +01                              | .1625+01                               | . 194E+81    |
|         |               | *************************************** | - | + |          | - | - 2449 ans   |             | . rest et   |     |      | +   | +   | 180 3484                                |                                        | . TORES      |
| 2       | CALCA         | THI CHANGE                              | • |   |          |   | 26.26.40.1   |             | 1046401     |     |      |     |     | 264548                                  |                                        |              |
|         |               |                                         |   |   |          |   |              |             |             |     |      |     |     |                                         | •                                      |              |
|         |               |                                         |   |   |          |   | 1010000      |             | 1046+0      |     | •    | ٠.  |     |                                         |                                        | 2176         |
|         |               |                                         |   |   |          |   | 20126121     | A           |             |     |      |     |     | 2366                                    |                                        | 2176         |
|         |               |                                         |   |   |          | • | 2636404      | : -         | 2415401     |     |      | , ~ |     | 2000                                    | 96.964.99                              | 2176         |
|         |               |                                         | - | - |          |   | 78437630     | •           |             |     |      |     |     | 2000                                    |                                        |              |
|         |               |                                         |   |   |          |   | 2205401      |             | 2416+01     |     | 9 1  | • • |     | 240540                                  | ****                                   | 2416         |
|         |               |                                         |   |   |          |   |              | •           |             | . , |      |     |     | *************************************** |                                        | 34.46        |
|         |               |                                         |   |   | 0 1      |   | 10.30630     | •           |             |     |      | , , |     | 100000                                  |                                        |              |
|         |               |                                         |   |   | 2        |   | . 2 46E + UI | . ** 9E+00  | . 1945 - 01 |     | n    | •   |     | . ce 15 001                             | ************************************** |              |
| 24      | ADTOR         | MATFRIAL MO.                            | 9 | 2 | 8        |   | . 229E+01    | . 859E+00   | . 194E+01   |     | 9    | 2   | ~   | .176E+81                                | .£76E+01                               | . 194E+01    |
| 1       | 1             |                                         | - |   |          |   | .2382+01     |             | 1942441     | -   | •    |     | +   | .2005+01                                | 18432810                               | 1942481      |
|         |               |                                         |   |   | 1        |   | 178F+41      |             | . 194E+01   |     | •    | •   |     | . 2PBE+81                               | . 8 59E+ BB                            | . 217E+81    |
|         |               |                                         |   |   |          |   | 1736+81      |             | . 194E+81   |     | 1    |     |     | . 256E+81                               | . 884E+00                              | . 217E+81    |
|         |               |                                         |   |   |          | • | 229F+81      |             | - 241F+01   | -   | -    |     | *   | 178F+81                                 | .17 AF+ 01                             | . 217F+B1    |
|         |               |                                         |   |   |          |   | 2366+01      |             | 2616+01     |     | . •  |     | . « | 1 PRF +01                               | 1736+01                                | 2176         |
|         |               |                                         |   |   |          |   | 1705         |             | 2446        |     |      |     |     | 28.25                                   | 6726400                                | 3446         |
|         | -             |                                         | - |   |          |   | 11,05401     |             |             |     |      | ,   |     | 100000                                  | 100000                                 |              |
|         |               |                                         |   |   |          |   | 10.75.70     |             |             |     |      |     |     |                                         | 100000                                 |              |
|         |               |                                         |   |   | 0        |   | . C 32E+01   |             | . 1945 • 01 | -   | •    | •   | •   | . 1/6E +01                              | 11/05+01                               |              |
|         |               |                                         |   |   |          | • |              |             |             |     |      |     | •   |                                         |                                        |              |

## BOLNDARY CONDITIONS,

| ELEMENT |     | LEHE |   | TYFE     | NOCE    | VALUE     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|---------|-----|------|---|----------|---------|-----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| NUMBER  | 1   | 1    |   |          | UR FACE |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | uz       | 3       | 1092E-81  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 1       | 1   | 1    | 1 | UZ       | 10      |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   |          |         | 18455-81  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 5       | 1092E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 11      | 1638E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | uz       | 9       | 1638E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | •       | 2184E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 12      | 2184E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | ut       | 1       | 21845-81  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | PRESSURE |         | .1425E+84 | .1425E+04  | .1425E+84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -1425E+04 |
|         |     |      |   | SLCPE    | 5       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 2       | 1   | 3    | 1 | uz       | 3       | 1092E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      | _ | UZ       | 10      | 1092E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | tt       | 11      | 1638E-01  |            | and the same of th |           |
|         |     |      |   | UZ       |         | 2184E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 12      | 2184E-01  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | FRESSURE |         | .1425E+04 | 44.000.04  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | SLOPE    | ż       | 0.        | .1425E+04  | .1425E+84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .1425E+00 |
|         |     |      |   | JEOFE    | •       |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 3       | 3   | 1    | 1 | ur       | 3       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 10      | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 2       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 11      | 5469E-02  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 9       | F46 0E-05 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | SLOFE    | 5       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         | 3   | 3    | 1 | uz       | 3       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | LZ       | 10      | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | UZ       | 11      | 5460E-02  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | SLOPE    | 5       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         | 1   | 1    | 3 | PPESSURE |         | .1425E+84 | -1425E+84  | .14255+84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .14292+04 |
| ,       |     |      | 3 | SLOFE    | 5       | 0.        | 114535484  | *14525444                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | *14525484 |
|         |     |      |   | SCOPE    | ,       | ••        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 6       | 1   | 3    | 3 | PPESSURE |         | .1425E+C4 | -1 425E+84 | .14252+04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -1425E+04 |
|         |     |      |   | SLOPE    | 2       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| ,       | 3   | 1    | 8 | SLOFE    | - 5     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         | •   | •    | ٠ | 55015    |         |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| •       | 3   | 3    | 3 | SLOFE    | 5       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 9       | 1   | 1    | 5 | PRESSURE |         | .1425E+84 | -L 425E+04 | .1425E+04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .1425E+04 |
|         |     |      |   | SLOFE    | 5       | 0.        |            | *********                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
| 10      | 1   | 3    | 5 | PPESSURE |         | .1425E+04 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 10      | 1   | 3    | , | SLOPE    | 2       | 1.        | .1425E+84  | .1425E+04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .1425E+04 |
|         |     |      |   | 26066    |         | ••        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 11      | 3   | 1    | 5 | SLOFE    | 5       | 0.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 12      | - 3 | 3    | 5 | SLOPE    |         | 6.        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | 200.0    |         |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 13      | 1   | 1    | 7 | UZ       | 7       | 3418E-02  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | uz       | 18      | 2300E-02  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|         |     |      |   | uz       | 6       | 18482-02  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |

#### SOUNDARY COMPITIONS.

| ELEMENT   | E | LEHE | NT  | TYPE     | HOCE    | VALUE      |             |            |           |
|-----------|---|------|-----|----------|---------|------------|-------------|------------|-----------|
| <br>MAREK | 1 | 1    | K   |          | OK FACE |            |             |            |           |
|           |   |      |     |          |         |            |             |            |           |
| 13        | 1 | 1    | 7   | UZ       | 19      | 304 0E-02  |             |            |           |
|           | - |      |     | UZ       | 17      | S888E-85   |             |            |           |
|           |   |      |     | UZ       |         | 4620E-02   |             |            |           |
|           |   |      |     | UZ       | 50      | 322 0E-05  |             |            |           |
|           |   |      |     | UZ       | :       | 2150E-02   |             |            | *****     |
|           |   |      |     | PRESSURE | •       | . 14255+84 | .14296+84   | . 1425E+84 | .1425E+W  |
| <br>      | - |      |     | SCOPE    |         | 0.         |             |            |           |
| 14        | 1 | 3    | 7   | UZ       | 7       | 3410E-02   |             |            |           |
|           |   |      |     | UZ .     | 18      | 3410E-82   |             |            |           |
|           |   |      |     | UZ       | 19      | 384 0E-02  |             |            |           |
|           |   |      |     | UZ       |         | 46286-82   |             |            |           |
|           |   |      |     | UZ       | 20      | 4628E-82   |             |            |           |
|           |   |      | -   | PRESSURE |         | *1452E+84  | *1 45 2E+84 | .1452E+84  | .1452E+84 |
|           |   |      |     | SLOFE    | 5       | 0.         |             |            |           |
| 15        | 3 | 1    | 7   | uz       | 7       | 1530E-02   |             |            |           |
|           |   |      |     | UZ       | 10      | 1530E-02   |             |            |           |
|           |   |      |     | UZ       | 6       | 1530E-02   |             |            |           |
|           | - |      |     | UZ       | 19      | 23005-02   |             |            |           |
|           |   |      |     | UZ       | 17      | 1688E-02   |             |            |           |
|           |   |      |     | SLOPE    | 5       | 1.         |             |            |           |
| 16        | 3 | 3    | 7   | UZ       | 7       | 1530E-02   |             |            |           |
|           |   |      |     | UZ       | 10      | 1530E-02   |             |            |           |
|           |   | -    | -   | UZ       | 19      | 23882-82   |             |            |           |
|           |   |      |     | SLOPE    | 5       | 1.         |             |            |           |
| 17        | 5 | 1    | 1   | SLOFE    |         | 0.         |             |            |           |
| •         | • |      |     | SLOPE    | •       | 0.         |             |            |           |
|           |   |      |     |          |         |            |             |            |           |
| 18        |   | 3    | - 1 | SLOPE    |         | 1.         |             |            |           |
|           |   |      |     | SLCFE    | 2       | 1.         |             |            |           |
| 19        | 5 | 1    | 3   | SLOPE    | 5       | 1.         |             |            |           |
|           |   |      |     |          |         |            |             |            |           |
| 20        | , | 3    | 3   | SLOPE    | 2       | 0.         |             |            |           |
| 21        | 5 | 1    | 5   | SLOPE    | 5       | t.         |             |            |           |
| 22        | 5 | 3    | 5   | SLOPE    | 2       | 0.         |             |            |           |
| 23        | 5 | 1    | 7   | SLOFE    | 5       | c.         |             |            |           |
| -         | - | -    | -   |          |         |            |             |            |           |
| 24        | 5 | 3    | 7   | SLOPE    | 5       | C.         |             |            |           |

ELEMENT SUMMARY REPORT

|                                     | /      | STRESS           |
|-------------------------------------|--------|------------------|
|                                     | HIPD   | POINT<br>MO.     |
| THREE HOST HIGHLY STRESSED ELEMENTS | 1      | ELEMENT<br>I J K |
| SSED                                |        | STRESS           |
| STRE                                | EC OND | POINT<br>NO.     |
| HIGHLY                              | 5      | I J K            |
| E NOST                              | /      | OINT STRESS      |
| 3 4 1 1                             | FIRST  | NO.              |
|                                     | 1,     | I J K            |

| SIGNA MAX 1<br>SIGNA MIN 3                         |          |        | -             |              |      |       |       |          |            |         |    |           |            |          |
|----------------------------------------------------|----------|--------|---------------|--------------|------|-------|-------|----------|------------|---------|----|-----------|------------|----------|
| SIGNA HIN 3                                        | -        | •      | 3             | 790E+63      | -    | -     | •     | 2        | 796 +83    | -       | -  | -         | <b>u</b> , | 6486+03  |
| TAU MAX 1                                          | -        | -      | 20            | 1686+04      | -    | -     |       | 116      | 167E+04    | m       | m  | -         | 30         | 166E+04  |
|                                                    | -        | -      | 7             | .3156+03     | -    | -     | •     | 2        | .305E+03   | -       | -  | m         | 37         | .209E+03 |
| EPS HAK 1                                          | -        | -      | •             | .2466-01     | -    | -     | •     | 37       | .246E-01   | -       | -  | -         | •          | .289E-01 |
| EPS HTH 1                                          | -        | •      | ;             | 327E-01      | -    | -     | •     | 23       | 310E-01    | -       | ** | •         | 37         | 226E-01  |
| GAMMA MAX 1                                        | -        | •      | 7             | 13-3764.     | -    | -     | •     | 7.3      | . 401E-01  | -       | -  |           | 37         | .472E-01 |
| HATEPIAL NUMBER =                                  | . HER =  |        | 2             |              |      |       |       |          |            |         |    |           |            |          |
| SIGHA HAX 5                                        | •        | -      | 503           | .55 3E +05   | •    | •     |       | 210      | . 54.88+85 | •       | m  | -         | 155        | .585E+85 |
| SIGN HIN S                                         | -        |        | 203           | 1436+05      | •    | -     |       | 506      | 1296+05    |         | 4  |           | 199        | 124E+05  |
| TAU NAX 5                                          | n        | -      | 1.54          | .291E+05     | •    | m     | -     | 157      | .290E+05   | 40      | m  | •         | 982        | .200E+05 |
| EPS 4AX 5                                          | •        | -      | 951           | -179E-02     | •    | m     | -     | 154      | .178E-02   | •       | m  | -         | 155        | .176E-82 |
| EPS MIN 5                                          | 4        | ^      | 203           | 633E-03      |      | -     |       | 199      | 805E-03    |         | m  | •         | 212        | 791E-83  |
| GAMMA MAX 5                                        | n        | -      | *             | .252E-02     | •    | •     | -     | 157      | .251E-02   | •       | •  | ~         | 902        | .249E-82 |
| * INE IN POST                                      | i        | 3.639  | 3.899 SECONOS | 1            |      |       | 1     |          |            |         | 1  |           |            |          |
| MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE =  | ASE GI   | R 10 E | LENENTS       | POSSIBLE =   | 16   |       |       |          |            |         |    |           |            |          |
| HAKINUM DIMENSION OF REFINED GRID =                | REFIN    | 3 03   |               | 1331         |      |       |       |          |            |         |    |           |            |          |
| MARINUM NUMBER OF GRIB FOINTS IN ANY ONE DIRECTION | 104 0    | 115    | * *** 0       | E- 018E3T10N | -    | -     | -     |          |            | 1       | i  |           |            |          |
|                                                    |          |        |               |              |      |       |       |          |            |         |    |           |            |          |
| COARSE GRID ELEMENT = 5<br>NODE K J I X-CCORD      | X-CCORD  |        | V-C00R3       | Z-C00RD      | NODE | x . I |       | X-C00R0  |            | Y-C00R0 | -2 | Z-C00R 0  |            |          |
| 30101 .940                                         | .940E+88 | :.     |               | .463E+00     | 1:   | 303   | 30302 | .123E+01 | 1 .463€+00 |         | 9  | . 463E+19 |            |          |

ELENEAT SUNNARY REPORT

|                                                  |                   | 2           | ELENENT |       | POINT         | ELEMENT POLAT STRESS ELEMENT POLAT STRESS ELEMENT POLAT STRESS | . E  | ELENENT | POINT      | STRESS    | 25           | 3 | ELENENT   |     | FOT 104 | STRESS    |
|--------------------------------------------------|-------------------|-------------|---------|-------|---------------|----------------------------------------------------------------|------|---------|------------|-----------|--------------|---|-----------|-----|---------|-----------|
|                                                  |                   |             | -       | ~     | ė             |                                                                | -    | ,       |            |           |              |   | ,         |     | i       |           |
| IAN MAI                                          | HATERIAL MUMBER . | MON.        | ER .    | -     |               |                                                                |      |         |            |           |              |   |           |     |         |           |
| STGM MAX                                         |                   | -           | -       |       | 11            | .1616.05                                                       | -    |         | 33         | .1616+85  | £+15         |   | -         |     | 35      | .1846.85  |
| STGM MIN                                         |                   | -           |         |       | 33            | 2508+15                                                        | •    | 1       | \$ 24      | 1466 + 15 | 50.3         |   | -         |     | 18      | bate . 0. |
| TAU MAX                                          |                   | -           | -       |       | *             | .315€+03                                                       | -    |         |            | .307E+03  | E++3         |   | -         |     | 11      | .3076+63  |
| EPS MAX                                          |                   | -           | -       |       | -             | .246E-01                                                       | -    | -       | •          | 227       | 227E-01      | - |           |     | 2       | .287E-81  |
| EPS HIM                                          | •                 | -           |         | •     | :             | 327E-01                                                        | -    | -       | 5 13       | 293E-01   | E-91         | - | -         |     |         | 203E-01   |
| GAMMA MAX                                        | *                 | -           | -       |       | =             | .497E-01                                                       | -    | -       | •          | **        |              | - | -         |     | 13      | .ve4E-01  |
| TIME IN POST                                     |                   | •           | -       | 139   | 1.139 SECO403 |                                                                |      |         |            |           |              |   |           |     |         |           |
| MAKINGH WONGER OF COARSE GRID ELENENTS POSSIBLE" | D 336             | COR         | 12E 68  | TO EL | EMENTS 1      | POSSTBLE .                                                     |      |         |            |           |              |   |           |     | 1       |           |
| MAXIMUM DINENSION OF REFINED CRID =              | ENST OF           |             | EFINE   | 3     |               | 1331                                                           |      |         |            |           | ,            |   |           |     |         |           |
| HAKINGH NUM                                      | -                 | CR10        | POIN    | 15 IA | ANY OW        | MAXIMUM NUMBER OF GRID POINTS IN ANY OWE DIRECTION             | 2    |         |            |           |              |   |           |     |         |           |
| POARSE GRIT                                      | 200               | ENT .       |         |       |               |                                                                |      |         |            |           |              |   |           |     |         |           |
| WOOK K 5                                         | K J I X-C00       | X-COORD     | 080     | -     | V-C0080       | Z-C00MD                                                        | HODE | K . I   |            | X-COORD   | V-COORD      |   | 2-C0040   |     |         |           |
| 1 30101                                          | =                 | . ** 16. 10 | :       |       |               | ***36.00                                                       | 11   | 30362   |            |           | . 20 1E + 00 |   | .4638+10  | :   |         |           |
| 60106                                            | 2:                | 19261       |         | 2016  | 2356 -41      | .4632.00                                                       | 11   | 100     |            | -         | - 9496       |   | 667       | ==  |         |           |
| 4 30301                                          | 1                 | 9295+88     | :       | . 10  | .160 E+00     | .4636+00                                                       | ::   | .0103   |            | 140       |              |   | 1.3069    | :   |         |           |
| 19195 5                                          |                   | .1276+81    | 100     | :     |               |                                                                | 57   | 40303   |            | 11:3      | . 2536+11    |   | 6536+1    | -   |         |           |
| 6 50103                                          |                   | 157         |         | :     | 271 6404      | .0416.00                                                       | ::   |         | 14.3241.   |           | 1926.        |   | 14.35.1   |     |         |           |
| 1888                                             |                   |             |         |       | . 217 Eves    | 183661                                                         | -    | 906     | 1          |           | 1496+10      |   | 38        |     | -       | -         |
| 9 30102                                          | 28                | .1136.01    |         | :     |               | *** 35 + 68                                                    | 2    | 50302   |            |           | . 2445 . 11  |   | . 630€+18 | :   |         |           |
| 10 302                                           | 93                | .1316.01    |         | .11   | .1186+73      | .4636+69                                                       | 2    | 988     | 1 .1296+01 | 11.       | .121E+10     |   |           | .91 |         |           |

FLENEAT SUMMARY REPORT

| SIGNA MAX 3 3 57 .19EF-C5 3 1 5 51 .113E+85 1 3 5 21 .113E+85 1 3 5 21 .113E+85 1 3 3 5 21 .113E+85 1 3 3 5 21 .113E+85 1 3 3 2 21 .113E+85 1 3 3 2 21 .113E+85 1 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ERIAL NUMBER = 1<br>3 3 57 .190E+(5 3 1 5 51<br>3 3 5 70359E+05 3 3 3 56<br>1 3 5 35 .3(7E+03 1 3 5 20<br>1 1 3 5 35 .200E-(1 1 1 5 13<br>1 3 5 35 .400E-(1 1 1 5 13<br>1 1 5 35 .400E-(1 1 1 5 13<br>1 1 5 5 35 .400E-(1 1 1 5 13<br>1 1 4 5 55 CONUS |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 3 3 5 70369E-05 3 1 5 51 .113E-05 1 3 3 5 1 1 3 5 20151E-05 1 3 3 3 5 1 1 3 5 20151E-05 1 1 3 5 20 30E-03 1 1 1 5 1 3 5 20 30E-03 1 1 1 5 1 3 5 20 30E-03 1 1 1 1 1 1 3 5 20 30E-03 1 1 1 1 1 3 5 20 30E-03 1 1 1 1 1 3 5 20 30E-03 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 3 3 3 57 -19fe+(5 3 1 5 51<br>1 3 5 70369fe+65 3 3 5 56<br>1 1 3 5 35 -37fe+03 1 3 5 28<br>1 1 3 7 -268fe-01 3 1 3 46<br>1 3 5 35293fe-01 1 1 5 13<br>1 3 5 35 -608fe-01 1 1 5 13<br>1 142 SECONDS                                                     |             |
| 1 3 5 70369E+05 3 3 3 56151E+05 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 3 5 70369E+05 3 3 3 5 8 6 1 1 3 5 20 1 1 1 3 5 20 1 1 1 1 3 5 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                 | 22 .9886+84 |
| 1 3 5 35 .3(7e,63 1 3 5 28 .306e,63 1 1 3 1 1 3 7 .260E-61 3 1 3 44 .249E-01 1 1 3 1 3 44 .249E-01 1 1 3 1 3 5 35 .404E-61 1 1 5 13 .473E-01 1 1 3 1 3 5 35 .404E-61 1 1 5 13 .473E-01 1 1 3 1 3 5 35 .404E-61 1 1 5 13 .473E-01 1 1 3 1 3 1 4 5 35 35 .404E-61 1 1 5 13 .473E-01 1 1 3 1 3 1 3 1 4 5 35 35 .404E-61 1 1 5 13 .473E-01 1 1 3 1 3 1 4 5 35 35 35 35 35 35 35 35 35 35 35 35 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 3 5 35 .3C7E.C3 1 3 5 28 1 1 3 7 .268E-C1 3 1 3 44 1 3 5 35203E-C1 1 1 5 13 2 1.142 SECONOS 2 8E.wee SECONOS                                                                                                                                         | 211516+85   |
| 1 1 3 7 .268E-C1 3 1 3 44 .249E-01 1 1 3 1 3 44 .259E-01 1 1 3 1 3 5 .459E-01 1 1 5 13 .473E-01 1 1 5 1 3 1 3 5 35 .484E-C1 1 1 5 13 .473E-01 1 1 3 1 3 1 3 5 35 .484E-C1 1 1 5 13 .473E-01 1 1 3 1 3 1 3 5 35 .484E-C1 1 1 5 13 .473E-01 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 1 3 7 .260E-C1 3 1 3 44 1 3 5 35293E-C1 1 1 3 6 1 3 5 35 .666E-C1 1 1 5 13 2 1.142 SECONOS 2 8E.484 SECONOS                                                                                                                                          | 0 .3006+03  |
| 1 3 5 35293E-C1 1 1 3 6259E-01 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 3 5 35 -0.203E-C1 1 1 3 6 1 3 5 35 .006E-C1 1 1 5 13 2 1.142 SECONDS 2 5E.NEW SECONDS                                                                                                                                                                | 1 .2465-81  |
| 1 3 5 35 .488E-C1 1 1 5 13 * 1.142 SECONDS * 66.164 SECONDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 3 5 35 .40&E-C1 1 1 5 13  # 1.142 SECOMOS  # 66.#64 SECOMOS                                                                                                                                                                                          | 132596-01   |
| • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | •                                                                                                                                                                                                                                                      | 0 .473E-01  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                                                                                                                                                                                                                                                      |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                        | 10 10 11    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                        |             |

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#ICOM SCOPE 3.4.2 MM SN 48 MXM R.O 14.27

15.27.28. MM3KP80 FROP /MP

15.27.28. IP 80808784 MORDS - FILE IMPUT , DC 88

15.27.29.764K18085 7288 A3 MACKETT 8M81

19.27.39. ATTACM TEX38. KPHXMM. IC-KPXXX.CY-3. MP=1)

19.27.38. ATTACM TEX38. KPHXMM. IC-KPXXX.CY-3. MP=1)

19.27.38. ASTACM TEX38. KPHXMM. IC-KPXXX.CY-3. MP=1)

19.27.38. ASTACM TEX38. KPHXMM. IC-KPXXX.CY-3. MP=1)

19.43.28. LOSET (PRESET-ZERO)

19.43.28. LOSET (PRESET-ZERO)

19.43.21. TEX38.

10.43.28. STOP

19.44.52. 84.888 CP SECGNOS EXECUTION TIME

19.64.52. 84.888 CP SECGNOS EXECUTION TIME

19.64.52. OF 8884992 MORDS - FILE OUTPUT , DC 48

19.64.52. AS 4.888 CP SECGNOS EXECUTION TIME

19.64.52. OF 8884992 MORDS (34.864 MAX USED)

19.64.53. CPA 93.611 SEC. 84.878 ADJ.

19.64.53. CPA 93.611 SEC. 84.878 ADJ.

19.64.53. CPA 94.59.18 KMS. 99.769 ADJ.

19.64.53. CPA 94.59.18 KMS. 99.769 ADJ.

19.64.53. CPA 94.59.18 KMS. 99.769 ADJ.
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#### LINE STRECT LIST OF INPUT DATA

```
ST BRICKH. 1.1.1 S PROPELLENT ELEMENTS
64 JEND
65 IEND
66 KEND
67 KLOOP,4
88 JKUUP,2
69 BRICK,2, S,1.1 S CASE ELEMENTS
70 JEND
71 KEND
72 KLOOP,4
73 ILOOP,3
74 BC,SLOPE,1.3.1, S S 0 DEGREE PACE
75 BC,SLOPE,1.3.1, S S 0 DEGREE FACE
76 IEND
77 KEND
78 KLOOP,2
79 BC,SLOPE,5,1.1, 6 S END OF CASE
80 JKD
61 BC,UZ,1.2.1, 0, -7, 385E-2
82 BC,UZ,1.3.1, 1, -7, 385E-2
83 BC,UZ,1.3.1, 1, -7, 385E-2
84 BC,UZ,1.3.1, 1, -7, 385E-2
85 BC,UZ,1.3.1, 1, -7, 385E-2
86 BC,UZ,1.3.1, 1, -7, 385E-2
86 BC,UZ,1.3.1, 1, -7, 385E-2
87 BC,UZ,1.3.1, 1, -7, 385E-2
89 BC,UZ,1.3.1, 1, -7, 385E-2
99 BC,UZ,2.5,1, 1, 6, -5, 538E-2
99 BC,UZ,2.5,1, 1, 6, -5, 538E-2
99 BC,UZ,2.5,1, 1, 1, -5, 538E-2
99 BC,UZ,2.5,1, 1, 1, -3, 692E-2
91 BC,UZ,3.3,1, 1, -3, 692E-2
92 BC,UZ,3.3,1, 1, -3, 692E-2
93 BC,UZ,3.3,1, 1, -1, 692E-2
94 BC,UZ,3.3,1, 1, -1, 69E-2
95 BC,UZ,3.3,1, 1, -1, 69E-2
95 BC,UZ,4,1,1, 1, -1, 646E-2
95 BC,UZ,5,3,1, 1, -1, 646E-2
95 BC,UZ,5,3,1, 1, -1, 646E-2
96 BC,UZ,5,3,1, 1, 1, -1, 646E-2
97 BC,UZ,5,3,1, 1, 1, -1, 646E-2
98 BC,UZ,5,3,1, 1, 1, -1, 646E-2
109 BC,UZ,5,5,1, 1, 0, 1
101 BC,UZ,5,5,1, 1, 0, 1
102 BC,UZ,5,5,1, 1, 0, 1
103 BC,UZ,5,5,0, 1, 0, 0
104 BC,UZ,5,5,0, 1, 0, 0
105 BC,UZ,1,5,0, 0, 1, 1, 15E-2
110 BC,UZ,5,5,0, 0, -1, 15E-2
111 BC,UZ,3,3,0, 0, -1, 15E-2
111 BC,UZ,3,3,0, 0, -1, 15E-2
112 BC,UZ,3,3,0, 0, -1, 15E-2
113 BC,UZ,3,3,0, 0, -1, 105E-2
114 BC,UZ,3,5,0, 0, -1, 105E-2
115 BC,UZ,5,5,0, 0, -1, 36E-2
117 BC,UZ,5,5,0, 0, -1, 36E-2
119 BC,UZ,5,5,0, 0, -1, 36E-2
111 BC,UZ,5,5,0, 0, -1, 36E-2
112 BC,UZ,5,5,0, 0, -1, 36E-2
113 BC,UZ,5,5,0, 0, -1, 36E-2
114 BC,UZ,5,5,0, 0, -1, 36E-2
115 BC,UZ,5,5,0, 0, -1, 36E-2
117 BC,UZ,5,5,0, 0, -1, 36E-2
118 BC,UZ,5,5,0, 0, -1, 36E-2
119 BC,UZ,5,5,0, 0, 0, -36E-2
119 BC,UZ,5,5,0, 0, 0, -36E-2
119 BC,UZ,5,5,0, 0, 0, -36E-2
121 BC,UZ,5,5,0, 0, 0, -36E-2
121 BC,UZ,5,5,0, 0, 0, -36E-2
122 BC,U
```

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129 REFURE. 1.1.3, 3,3,5

130 REFURE. GRADS. 1.1.3, 2.2.2

131 OCR. REFORME. 1.1.3, 2.2.2.2, 2.2.1, 1,3

132 END. COMTROL

133 SOLVE

135 OLOK

136 OPTICM. 2

137 END. POST

138 REFURE. 1.1.3, 3,3,5

139 REFURE. GRADS. 1.1.3, 2.2.2

140 OCR. REFORME. 1.1.3, 2.2.2.2

140 OCR. REFORME. 1.1.3, 2.2.2.2

141 END. COMTROL

142 SOLVE

143 POST

144 SUCK

145 OPTICM. 2

146 OPTICM. 2

146 OPTICM. 2

147 STOP

TIME IM FFLDS9 = 1.111 SECONDS
```

127

|                                     | -            | •     | •                 |       | 2             | SIKESS                                              | -    | ,      | ~ |            |           | - |           |           |     |           |
|-------------------------------------|--------------|-------|-------------------|-------|---------------|-----------------------------------------------------|------|--------|---|------------|-----------|---|-----------|-----------|-----|-----------|
|                                     | MATER        | 141   | HATERIAL MUNDER - |       |               |                                                     |      |        |   |            |           |   | -         |           |     |           |
| SIGN                                | . MAX        | -     | -                 | •     | 2             | .2256+03                                            | -    | -      |   | 1,         | .2256+03  |   | -         |           |     | .2005.03  |
| SIGM                                | SIGNA MIN    | -     | -                 | •     | 116           | 9306-02                                             | -    | -      |   | :          | 1006 - 12 | - | -         | •         | 2   | 7646.02   |
| TAU 44X                             | 1AX          | -     | -                 | •     | 7             | .1106+03                                            | -    | -      | • | 23         | .107E+03  | - | -         | •         | "   | .9196.02  |
| EPS 44.X                            | M            | •     | -                 | -     | •             | .211E+00                                            | -    | -      |   | 33         | .211E+00  | - | -         | -         |     | .1036.00  |
| EPS ATA                             | II.          | -     | •                 | •     | ;             | 291E+00                                             | -    | -      | • |            | 2765+00   | - | -         |           |     | 2266- 00  |
| CAMPA                               | -            | -     | -                 | •     | 7             | .4736+00                                            | -    | -      | • | 23         | .,5%      | - | -         | •         |     | .3046.00  |
|                                     | MATER        | IN H  | HATERIAL MUMBER   |       | ~             |                                                     |      |        |   |            |           |   |           |           |     |           |
| STGM                                | SIGN MAX     | •     |                   |       | 213           | .374E+05                                            | •    |        |   | 583        | . 360E+85 | • | -         |           | 112 | .3666+85  |
| SIGNA MIN                           | -            | •     | -                 | -     | 203           | 1166+06                                             | •    | -      | 1 | - 982      | 1166.06   | • |           |           | 73  | 1146.86   |
| TAU MAK                             | 1AX          | •     | -                 | •     | 203           | .640E+05                                            |      | -      |   | 212        | .6 376+85 | • | -         |           | *** | .6366.89  |
| EPS HAX                             | X            |       | -                 | -     | 203           | .234E-02                                            | •    | -      |   | 212        | 2136-12   | • | -         |           | ŧ   | -2836-62  |
| EPS HIN                             | IIN          |       | -                 | -     | 203           | -+321E-02                                           | •    | -      | - | - 212      | 310E-02   | • | -         | -         | 32  | 3106-02   |
| GAMMA MAX                           | MAX          | •     | -                 | •     | 203           | .955E-02                                            | •    |        |   | 212        | . SSZE-02 | • | -         |           | *   | . SS2E-12 |
| rine in Post                        | 1604         |       |                   | 3.0   | 3.889 SECONDS |                                                     | -    |        |   |            |           |   |           |           |     |           |
| -                                   | NUMBER       | 8     | DARSE             | 68 10 | ELEMENTS      | MAKIMUM MUMBER OF COARSE GRID ELEMENTS POSSIBLE -   | 2    |        |   |            |           |   |           |           |     |           |
| MANIMUM DIMENSION OF REFINED GRID . | DINENS       | 100   | 1 1661            |       |               | 1331                                                |      |        |   |            |           |   |           |           |     |           |
| **                                  | 1            | *     | 110 20            | # 13  | ## ## ##      | nearing number of this foliate is the one diagorion | -    |        |   |            |           |   |           |           |     |           |
| COARSE                              | GRID ELEMENT | KENEN | 8                 | w _   | V-C00RD       | Z-000RD                                             | HODE | x . 1  |   | X-C00RD    | V-C00RD   | 2 | 2-2       | 0 - 000-2 |     |           |
| 1                                   | 30101        | •     | 34.06+00          |       |               | .4635+08                                            | =    | 38382  |   | .12 M . 01 |           | = | . 4636+11 | ::        |     |           |
| ~ ~                                 | 30103        | -     | 1696.01           | •     |               | .4635+00                                            | 15   | 30264  |   | .9296.00   | . 1605.0  | = | 6 %       | ::        |     |           |
|                                     | 30301        | :     |                   |       | . 330E+00     | .463E+C8                                            | ::   | 10104  |   | 1066+01    | •         |   | . 0305+0  |           |     |           |
|                                     | 50101        | 7.    | 160E-01           | •     |               | .1165+01                                            | 57   |        |   | .15%***    |           | = | . 033E+00 |           |     |           |
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| 1                                   |              |       |                   | •     |               |                                                     | :    |        |   |            |           |   |           |           |     |           |

FLENENT SUNNARY REPORT

|                                                   | -     |       | ~     |               | •0•            | - | , | ~ | •  | · · · · · · · · · · · · · · · · · · · | - | - | _ | •  |          |
|---------------------------------------------------|-------|-------|-------|---------------|----------------|---|---|---|----|---------------------------------------|---|---|---|----|----------|
| PATERIAL MUNBER -                                 | 1     |       |       |               |                |   |   |   | 1  | -                                     |   |   |   |    |          |
| SIGNA MAX                                         | -     | ~     |       | 2             | .5486+0+ 1 1 5 | - | - | • | 11 | .540[+04 3 1 3                        | • | - |   |    | .3626.04 |
| SIGM NIN                                          | -     | -     | •     | 2             | 002E.04 1      | - | • | • | :  | 4076 . 04                             | - | - |   | 2  | 2486.84  |
| TAU MAX                                           | -     | -     |       | =             | .1106+03       | - | - |   | 2  | .1005.03                              | - | • | • | 22 | .1605.03 |
| 17H S43                                           | -     | -     | •     |               | .2116+00       | - | - | - | •  | .1936+00                              | - |   |   | =  | .1036.00 |
| EPS AIN                                           | -     | -     | 41    | 4             | 291E+00        | - | - | • | 92 | 2 *** - 00                            | - | • | • | 23 | 24464 60 |
| -                                                 | -     | ••    |       | :             | 1              | - |   | • | 92 | 296.05                                | - | - |   | 22 | 29E+0.   |
| TIME IN POST                                      | •     |       | 1.126 | 1.126 SECONDE |                |   |   |   |    |                                       |   |   |   |    |          |
| MAXIMUM NUMBER OF CORPS! GRID ELEMENTS POSSIBLE : | 1C3 4 | 134   | a ata | LEWENTS       | POSSIBLE #     | = | - |   |    |                                       |   |   |   |    |          |
| MAXIMUM DINE WEIGN OF REFINED GRID = 1231         | 30 M  | 11.33 | FE GR | 1 . 91        | 231            |   |   |   |    |                                       |   |   |   |    |          |

| 0 #900-2                          | .463E+19    | . 4632+18  | 11+3299  | . 658E+!! | . 65 3€+00 | . 699E+00 | . 8435+00 | . BSWett  | . 6366+7 0 | . 8425+00 |
|-----------------------------------|-------------|------------|----------|-----------|------------|-----------|-----------|-----------|------------|-----------|
| V-C00#0                           | . 201E + 00 | . BubE-11  |          |           | .253E+01   | . 192E+88 |           | 11496+11  | . 2446+00  | .121E+00  |
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| CRID ELEMENT . 1<br>K J I X-COORD | .948 6.68   | 13261.     | .130E+01 | .9298+86  | .1276+01   | .1576+01  | .1446.01  | 1843211   | .1136+01   | .1316.01  |
| RED ELE                           | 30101       | 38183      | 30303    | 30301     | 50101      | 50103     | 50303     | 38383     | 30102      | 50203     |
| COARSE                            | -           | 2          |          |           |            |           |           | -         | •          | 21        |

ELENENT SURMARY REPORT

| SIGNA MAX 3 3 57 .662E+04 3 1 5 51 .429E+04 1 3 5 .202E+04   SIGNA MAX 3 3 57 .662E+04 3 1 5 5 .4426E+04 1 3 5 E1 .444E+04   TAU MAX 1 3 5 70 .410E+05 3 3 50 .444E+04 1 3 5 E0 .933E+04   EPS MAX 1 1 3 7 .235E+10 3 1 3 44 .225E+00 1 1 3 5 20 .933E+04   EPS MAX 1 3 5 35 .429E+00 1 1 5 13 .209E+00 1 1 3 5 E0 .420E+04   GANNA MAX 1 3 5 35 .429E+00 1 1 5 13 .399E+00 1 1 3 6 .309E+04   TIME IN POST | ,         | -      |   |   |     | -       | and desiration of the latest and desiration of the latest and the |   | - |   |   |            |   |   |    |   |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|---|---|-----|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|------------|---|---|----|---|----------|
| 3 3 5 70110fe05 3 1 504510fe06 1 3 9 82  1 3 5 70110fe05 3 3 3 504510fe06 1 3 9 81  1 1 3 5 352540fe03 1 3 5 -3530fe06 1 1 3 9 81  1 3 5 352540fe00 1 1 5 132590fe00 1 1 1 3 1  1 3 5 356540fe00 1 1 5 132590fe00 1 1 1 3 0  1 3 5 352540fe00 1 1 5 132590fe00 1 1 1 3 0                                                                                                                                    | 1         | TERIAL |   |   |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |            |   |   |    |   |          |
| 3 3 5 70110E+05 3 3 3 50416E+04 1 3 3 E1 1 3 5 35 .10E+03 1 3 3 23 .93E+02 1 3 5 20 1 1 3 5 3524E+08 1 1 5 13229E+08 1 1 3 1 1 3 5 3524E+08 1 1 9 13 .399E+08 1 1 3 0                                                                                                                                                                                                                                       | SIGN HA   |        |   | - | -   |         | *0+3299*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   | - |   | 3 | ******     | - | - | -  | 2 | .202E+84 |
| 1 3 5 35 .108f-03 1 3 23 .933f-02 1 3 5 20 1 1 3 7 .235f-10 3 1 3 44 .225f-00 1 1 3 1 1 3 5 35 .429f-00 1 1 5 13 .399f-00 1 1 3 0  - 1.150 SCCOMOS                                                                                                                                                                                                                                                          | SIGNE HI  | -      |   |   |     |         | - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   | - | - | • | 6165.86    | - | - | -  | = | 4146.84  |
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| 1 3 5 35 .429E+08 1 1 5 13 .399E+88 1 1 3 8                                                                                                                                                                                                                                                                                                                                                                 | EPS HIM   |        | - | - |     |         | 2445.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - | - |   | = | -, 2036+00 | - | - | -  | = | 2036+00  |
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|                                                                                                                                                                                                                                                                                                                                                                                                             | HE IN POS |        |   | - | 150 | SECONDS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |            |   |   |    |   |          |

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MICON SCOPE 3.4.2 MM SN 49 MXM P.O 14.27

15.30.26.MM KPBR FROP /KP

15.30.25.IP 0808076 MOROS - FILE IMPUT , OC 08

IX.35.26.NM KPP, T1855_CWZBUSB.LIUTS.

15.36.25.7661K18M95 7206 A3 HACKETT 8M61

15.36.26.LINIT(1888)

15.36.26.OTSPOSECOUPPUT, **PPRC?**

15.46.25.CTSPOSECOUPPUT, **PPRC?**

15.46.25.LOSET(PRESET=ZERO)

15.46.25.TEX39.

16.31.53. NON-FATAL ERROR(S) IN OVERLAY GEM.

19.86.51. 3TOP

19.86.51. 35.173 CP SECORDS EXECUTION TIME

19.86.51.07 08086866 MOROS - FILE OUTPUT , OC 68

19.86.51.07 0807080808080 (34.80 USEO)

19.86.51.07 08086866 MOROS - 54.80 MAX USEO)

19.86.51.07 08086866 MOROS - 54.80 MAX USEO)

19.86.51.07 08086866 MOROS - 56.80 MAX USEO)

19.86.51.07 080868686 MOROS - 56.80 MAX USEO)

19.86.51.08 090868686 MOROS - 56.80 MAX USEO)

19.86.51.09 090868686 MOROS - 56.80 MAX USEO)

19.86.51.09 090868686 MOROS - 56.80 MAX USEO)

19.86.51.00 0908686 MAX USEO)
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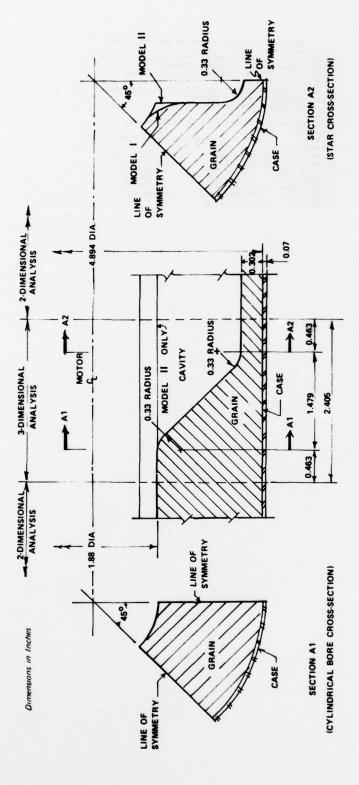


Figure 1. Star to Cylindrical Bore Transition Region (45° Segment)

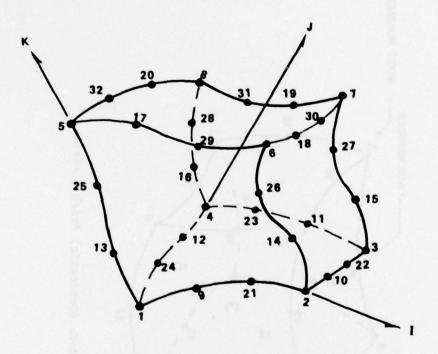


Figure 2. Cubic Grid Generation Block

The eight corner points must be input (1 thru 8). Points 9 thru 32 not specified are located automatically by linear interpolation between corners.

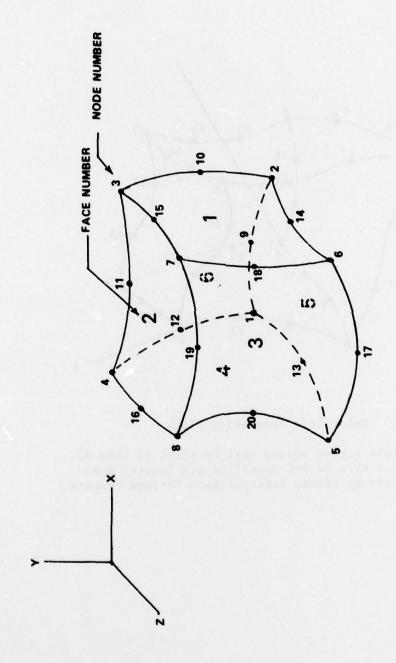


Figure 3. 20 Node (Quadratic) Brick Element

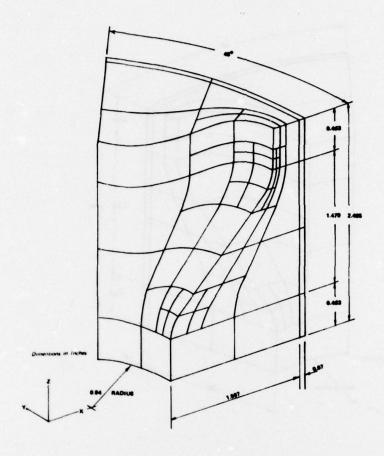


Figure 4. Finite Element Model of Star to Cylindrical Bore Transition (I)

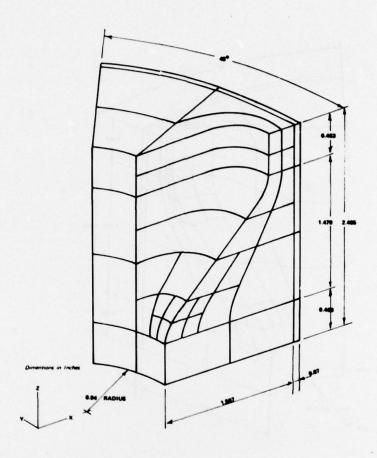
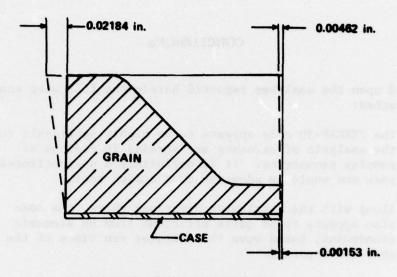
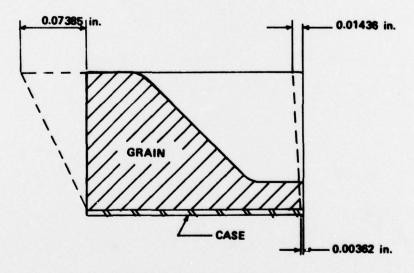


Figure 5. Finite Element Model of Star to Cylindrical Bore Transition (II)



a) PRESSURE LOADING CONDITION



b) THERMAL LOADING CONDITION

Figure 6. Grain Transition Interface Displacements (From Previous Two-Dimensional Analyses)

## CONCLUSIONS

Based upon the analyses reported herein the following conclusions can be reached:

- The TEXGAP-3D code appears to be highly applicable to the analysis of stresses and strains in regions of complex geometrics. It is definitely a user oriented code and would be adaptive as a design tool.
- 2) Along with the attributes described above, the code also appears to be quite efficient from an economic standpoint, based upon the computer run times of the analyses reported.

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- 1. Engineering Analysis of Selected Advanced Propulsion Concepts III, Technical Report RK-CR-76, US Army Missile Command, Redstone Arsenal, Alabama, September 1976.
- E. B. Becker and R. S. Dunham, "TEXGAP-3D A User Oriented Three-Dimentional Static Linear Elastic Stress Analysis Program", Vol. I, March 1977.
- E. B. Becker and R. S. Dunham, "TEXGAP-3D A User Oriented Three-Dimensional Static Linear Elastic Stress Analysis Program", Vol. II, March 1977.

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